JVC

SERVICE MANUAL

VHS VIDEO MOVIE SYSTEMS WHSTE



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VHS VIDEO MOVIE

MODEL GR-C7EG/EK

CAR BATTERY CHARGER

MODEL BH-V5E

CARRYING CASE

MODEL CB-V50U

SHOULDER STRAP

MODEL VU-V17U

CARRYING BAG

MODEL CB-V21U

NOTE: For a technical description, please refer to Technical Guide T-8057 GR-C7 PAL.

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CB-V21U



SERVICE MANUAL

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GR-C7EG/EK





SPECIFICATIONS

: VHS standard Format : DC 9.6 V === Power source Power consumption: 8.0 watts

: PAL Signal system

Recording system : Luminance: FM recording

Colour: Converted sub-carrier direct recording

Conforms to VHS standard

: VHS-C cassette Cassette Tape speed (SP): 23.39 mm/sec (LP): 11.70 mm/sec

Recording time

(SP): 30 minutes (with EC-30 Max.

cassette)

(LP): 60 minutes (with EC-30

cassette)

VIDEO

: 1 Vp-p, 75 ohms, unbalanced Output

(via AV OUT connector)

: 40 dB (with Rohde & Schwarz S/N ratio

noise meter)

AUDIO

: -6 dBs, 1 k-ohm (via AV OUT Output

connector)

Microphone input: -68 dBs, high impedance,

unbalanced

Pickup : 1/2"-format CCD

Minimum required illumination : 15 lux (at F 1.6) Illumination range : 15 - 100,000 lux

: F 1.6, f = 9 - 54 mm,

6:1 power zoom lens with auto iris control and macro position, filter diameter 49 mm

Viewfinder : Electronic viewfinder with 0.6" black/white CRT

Colour temperature: Switchable switching (3,200 K/5,500 K) White balance

adjustment : Full-auto/preset standard

Operating tempera-

: 0°C to +40°C Operating humidity: Less than 80 % Storage temperature: -20°C to +50°C

: 1.4 kg (with viewfinder) Weight : 121(W) x 165(H) x 223(D) mm Dimensions

(incl. viewfinder)

AA-V2EG/EK SPECIFICATIONS

: AC 110 - 240 $V \sim$, 50/60 Hz Power supply

Power consumption: 30 watts Rated output voltage: DC 9.6 V ===

Rated output current: 1.2 A

Charging system : Constant current, peak detec-

tion, timer controlled

Dimensions : $57(W) \times 67(H) \times 200(D)$ mm

Weight : Approx. 700 g

C-P3U SPECIFICATIONS

Type : VHS cassette adapter

Dimensions : 188(W) x 25(H) x 104(D) mm

Weight

: 235 g : "R6"-size battery x 1 Accessory

RF-P1E SPECIFICATIONS

: UHF channels 32 - 40 Output channel

(adjustable)

setting Power source

Initial channel

: DC 8 V == 20 mA (from VideoMovie)

: 55(W) x 93(H) x 24(D) mm Dimensions

: UHF 36

excl. cable

Cable length : 2.5 m

: Approx. 160 g Weight

Provided accessories

High-capacity battery pack (1.0 AH) NB-P7U AC power adapter/battery charger AA-V2EG/EK

RF unit RF-P1E Aerial cable Dubbing cable x 2

Compact video cassette EC-30 Cassette adapter C-P3U

Electronic viewfinder VF-V7E

Shoe adapter Lens hood Lens cap

Shoulder strap VU-V17U Carrying case CB-V50U

Grip pad

Optional accessories

Regular battery pack (0.5 AH) NB-P5U

Medium-capacity battery pack (0.7 AH) NB-P6U High-capacity battery pack (1.0 AH) NB-P7U Super high-capacity battery pack (1.8 AH) NB-P8U AC power adapter/battery charger AA-V2EG/EK

Car battery charger BH-V5E Car battery cord AP-P1E

Cassette adapter C-P3U Compact video cassette EC-30 Carrying bag CB-V21U

Shoulder strap VU-V17U Carrying case CB-V50U Remote control unit RM-P1U A/V extension cable VC-P2U Conversion cable VC-V810U

Character generator CG-P50E

Design and specifications subject to change without notice.

Important Safety Precautions

Prior to shipment from the factory, JVC products are strictly inspected to conform with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

Precautions during Servicing

- 1. Locations requiring special caution are denoted by labels and inscriptions on the cabinet, chassis and certain parts of the product. When performing service, be sure to read and comply with these and other cautionary notices appearing in the operation and service manuals.
- 2. Parts identified by the A symbol and shaded () parts are critical for safety.

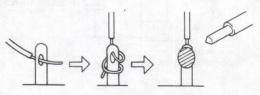
Replace only with specified part numbers.

Note: Parts in this category also include those specified to comply with X-ray emission standards for products using cathode ray tubes and those specified for compliance with various regulations regarding spurious radiation emission.

- 3. Use specified internal wiring. Note especially:
 - 1) Wires covered with PVC tubing
 - 2) Double insulated wires
 - 3) High voltage leads
- 4. Use specified insulating materials for hazardous live parts. Note
 - 1) Insulation Tape
 - 2) PVC tubing
 - 3) Spacers
 - 4) Insulation sheets for transistors

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5. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.) wrap ends of wires securely about the terminals before soldering.



- 6. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.)
- 7. Check that replaced wires do not contact sharp edged or pointed
- 8. When a power cord has been replaced, check that 10-15 kg of force in any direction will not loosen it.

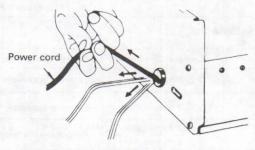


Fig. 2

9. Also check areas surrounding repaired locations.

- 10. Products using cathode ray tubes (CRTs)
 - In regard to such products, the cathode ray tubes themselves, the high voltage circuits, and related circuits are specified for compliance with recognized codes pertaining to X-ray emission. Consequently, when servicing these products, replace the cathode ray tubes and other parts with only the specified parts. Under no circumstances attempt to modify these circuits. Unauthorized modification can increase the high voltage value and cause X-ray emission from the cathode ray tube.
- 11. Crimp type wire connector

In such cases as when replacing the power transformer in sets where the connections between the power cord and power transformer primary lead wires are performed using crimp type connectors, if replacing the connectors is unavoidable, in order to prevent safety hazards, perform carefully and precisely according to the following steps.

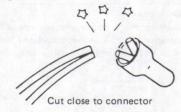
1) Connector part number: E03830-001

ce salv Required tool: Connector crimping tool of the proper type Ciratis swhich will not damage insulated parts.

3) Replacement procedure

Digitize Bemove the old connector by cutting the wires at a point close to the connector.

Important: Do not reuse a connector (discard it).



(2) Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.

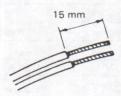


Fig. 4

(3) Align the lengths of the wires to be connected. Insert the wires fully into the connector.

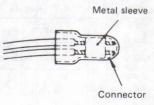
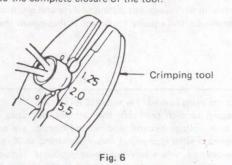


Fig. 5

(4) As shown in Fig. 6, use the crimping tool to crimp the metal sleeve at the center position. Be sure to crimp fully to the complete closure of the tool.



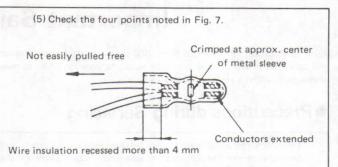


Fig. 7

Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions, Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

1. Insulation resistance test

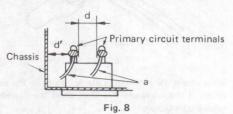
Confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table below.

2. Dielectric strength test

Confirm specified dielectric strength or greater between power cord plug prongs and exposed accessible parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table below.

3. Clearance distance

When replacing primary circuit components, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See table below.

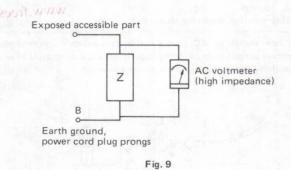


4. Leakage current test

Confirm specified or lower leakage current between B (earth ground, power cord plug prongs) and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).

Measuring Method: (Power ON)

Insert load Z between B (earth ground, power cord plug prongs) and exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See figure and following table.



AC Line Voltage	Region	Insulation Resistance	Dielectric Strength	Clearance Distance (d), (d'
100 V	Japan	≧ 1 MΩ/500 V DC	1 kV 1 minute	≧ 3 mm
110 to 130 V	USA & Canada		900 V 1 minute	≧ 3.2 mm
*110 to 130 V 200 to 240 V	Europe Australia	≧ 10 MΩ/500 V DC	4 kV 1 minute	≥ 6 mm (d) ≥ 8 mm (d') (a: Power cord)

^{*}Class II model only.

Table 1 Ratings for selected areas

AC Line Voltage	Region	Load Z	Leakage Current (i)	Earth Ground (b) to:
100 V	Japan	0-VV-0 1 k52	i ≦ 1 mA rms	Exposed accessible parts
110 to 130 V	USA & Canada	0.15 μΓ	$i \leqq 0.5 \text{ mA rms}$	Exposed accessible parts
110 to 130 V	Europe	0	$i \le 0.7 \text{ mA peak}$ $i \le 2 \text{ mA dc}$	Antenna earth terminals
220 to 240 V	Australia	0—VV—0 50 kΩ	$i \le 0.7 \text{ mA peak}$ $i \le 2 \text{ mA dc}$	Other terminals

Table 2 Leakage current ratings for selected areas

Note: This table is unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

INSTRUCTIONS

WARNING:

TO PREVENT FIRE OR SHOCK THIS APPLIANCE TO RAIN OR HAZARD, DO NOT EXPOSE MOISTURE.

11 This equipment should be used with 9.6 V only.

CAUTION

op To prevent electric shocks and fire hazards, NOT use any other power source. Adapter/Battery AC Power The AA-V2EG 50/60 Hz only.

Charger should be used with 110 - 240 V ~

To prevent electric shocks and fire hazards, do NOT use any other power source.

MPORTANT (In the United Kingdom) Mains Supply (240 V√, 50 Hz only)

IMPORTANT

not make any connection to the Larger Terminal coded E or Green. The wires in the mains lead are coloured in accordance with following code:



these colours do not correspond with the terminal identifications of your plug, connect as follows:

Brown wire to terminal coded L (Live) coloured Black. coloured Red.

or

If in doubt - consult a competent electrician.





•VideoMovie is designed exclusively for the WHSTE video cassette. Only cassettes marked WHSTE can be

used with this unit.

• HQ VHS is compatible with existing VHS equipment.

single compact unit for the most convenient live recording capability available today. The Auto-focus pact video cassettes to make recordings compatible your television set for direct playback of cassettes; no focus VideoMovie. Weighing only 1.4 kg, the Autofocus VideoMovie comprises an auto-focus CCD video camera, and recording and playback functions in a with all VHS recorders. It can also be connected to Thank you for purchasing the JVC GR-C7E Auto-VideoMovie uses the VHS recording system and comadditional video equipment is required.

To take best advantage and gain the most service from your Auto-focus VideoMovie, read this instruction booklet carefully and thoroughly.



ATTENTION:
The system select switch on the rear of the provided RF unit RF-P1E has been set to (Continental PAL, 5.5 MHz)

CAUTION:

To prevent shock, do not open the cabinet. No user serviceable parts inside. Refer servicing to qualified personnel

- The rating plate (serial number plate) and safety caution of the main unit are on its bottom.
- The rating plate (serial number plate) of the viewfinder is on its bottom.
- The rating plate (serial number plate) of the AC power adapter/battery charger is on its side.

The provided viewfinder is the VF-V7E. Do not use any other viewfinder with the GR-C7E. This equipment has been produced to comply with Directive number 82/499/EEC. COPYRIGHT © 1986 VICTOR COMPANY OF JAPAN, LTD.



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FEATURES

- Allows direct recording and playback with no additional components necessary.
- Ultra-compact and ultra-lightweight: a mere 1.4 kg.
- Maximum of 60 minutes recording time in LP mode.
- HQ (High Quality) System for super picture quality.
- Super-performance camera using a CCD (Charge Coupled Device) pickup highly resistant to shock and vibrations less susceptible to burn for semi-permanent, trouble-free opera-
- Full-auto camera operation (image-sensing auto-focus, auto-tracking white balance, auto iris with BLC)
 - Ultra-compact adjustable electronic viewfinder (monochrome CRT, 0.6-inch screen) with diopter control, also for instant on-the-spot playback
 - High-sensitivity/low-lag design: allows shooting in light as low as 15 lux.
- High-performance 6: 1 power zoom lens with macro position
- Three-way power supply flexibility: battery pack, AC power adapter and car battery.
- Selectable quick review function.
- One-button recording standby mechanism
 - Improved assemble-edit accuracy.
- Ergonomic design with palm grip and finger rest for trigger control Shuttle search in both directions.
- Complete package in a durable case

The GR-C7E is designed to be used with PAL-type colour television signals. It cannot be used for playback with a television of a different standard. However, live modate different designs of AC outlets in different recording and viewfinder playback are possible any where. Use the NB-P5U/NB-P6U/NB-P7U/NB-P8U battery packs and, to recharge them, the provided multivoltage AC power adapter/battery charger. (An appropriate conversion adapter may be necessary to accom-

PRECAUTIONS

For safety, strictly observe the following instructions.

- Do not open the cabinet
- Prevent inflammables, water and metallic objects
 - Do not use the unit when there is lightning in the vicinity. Disconnect the power cable of connected Do not disassemble or modify the unit. from entering the unit.

equipment.

- Near appliances generating strong magnetic or elec-Avoid using the unit under the following conditions: tric fields (speakers, broadcasting antennas, etc.) Places subject to excessive humidity or dust.
- ing stove.

Places subject to soot or steam such as near a cook

- Near a television set (rolling pictures or howling Places subject to excessive shock or vibration. might result).
 - Extremely hot places.

Do not expose the unit to high temperatures over 50°C for long periods.

If the unit should be subjected to direct sunlight, or the CCD and the auto-focus sensor may deteriorate and the cabinet may become deformed. Furthermore, eft in a closed car in summer, or placed near a heater, this also may cause the transistors and other electronic and mechanical parts to malfunction, Remember the following:

- •Do not use the unit in places of over 40°C.
- Do not use the unit in places of below 0°C.
- Do not use the unit in humid places of over 80%.
- For long storage, select a place between -20°C and 30°C.
 - ake special care for protection of the unit.
 - Do not allow the unit to become wet.
- Do not leave the unit in closed cars on hot summer
- Take special care not to drop the unit or strike it against hard objects. Protect from shocks during transportation.

- Make it a rule to observe the following instructions.

 Do not remove the battery pack or disconnect others power supply units during recording or playbackabefore pressing the POWER switch to OFF. If not observed, this will cause tape damage.

 When the unit is not in use, remove the battery pack A. Keep the lens and viewfinder eyepiece always clean.

 When the lens is dirty or dusty, blow it off first and then gently wipe with a soft brush or lens cleaning paper.

 The lens is likely to become moldy if left dirty.

 Be careful not to damage the CCD and auto-focus's sensor.

 Do not keep the lens directed at extremely brightodium.
- long periods. Although the CCD is less susceptible to such burn than a tube would be, caution should objects such as the sun or other light sources for be exercised when using this unit. Most importantly, the lens should be capped except while actually shooting.
 - Do not direct the eyepiece of the viewfinder at the sun.

Auto-focus requires a bit of consideration.

- Do not touch the focus ring while the auto-focus mechanism is in operation as this could damage the auto-focus mechanism.
- •When a filter or a special-effect lens is to be attached. to the end of the lens, be sure to turn power off or switch from the Auto-focus mode to the Manual/L mode. NEVER attempt to attach a filter or lens while the auto-focus mechanism is operating as this will result in malfunctioning. (If a teleconversion 7 or wide-angle conversion lens is attached, the auto focus mode cannot be used.)

Handle the unit carefully.

- Protect the microphone from excessive shocks.
- Do not carry the unit by holding it only by

CONTROLS AND CONNECTORS

Left side

The GR-C7E employs only compact video cassettes carrying the WHSIO mark.

Moisture condensation disenables use of the unit.

- You have observed that pouring a cold liquid into a glass will cause drops of water to form on the glass's outer surface. This same phenomenon occurs on the head drum of a video recorder when the recorder is moved from a warm place to a cool place, after heating a cold room, under extremely humid conditions or in a place directly subjected to the cool air from an air conditioner.
 - Moisture on the head drum can cause severe damage to the video tape, and can lead to internal damage
- play and the unit enters the Stop mode, unable to If moisture condensation occurs on the head drum, a condensation warning appears in the counter disfunction. In such a case, wait for a few hours until the indicator disappears. to the recorder itself.

Maintenance

- . When the cabinet is dusty, clean by gently wiping with a soft cloth.
- Denzine or alconol as they may damage the cabiner.

 Cleaning should be done only after the battery pack has been removed or other power units have been disconnected.

 Serious malfunctioning

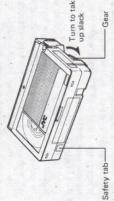
 If malfunctioning occurs, stop using the unit immediately and consult your local JVC dealer. Avoid the use of strong cleaning agents such as benzine or alcohol as they may damage the cabinet.

repeatedly An inverted cassette cannot be inserted. signals.

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- tape is not slackened. If there is any slack, turn the without allowing the tape to run at all. This will gear on the cassette in the direction of the arrow to slacken the tape and thereby damage it.
 - take up slack.
- To avoid excessive exposure to dust and fingerprints,

0



8 9

Top view

Storage of cassettes

- Avoid exposing the cassettes to direct sunlight. Keep them away from heaters.
- Do not drop the cassettes. Do not expose them to Avoid storing the cassettes in humid or dusty places.
- Do not expose the cassettes to strong magnetic violent vibrations or shocks.
 - •Place the cassettes in cassette cases and position fields (near a motor, transformer or magnet).

them vertically.

9 0 **Bottom view**

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9

VIDEO CASSETTES

Front view

- Recording onto prerecorded tapes automatically erases the previously recorded video and audio
- Do not load and unload the cassette
- Make certain before loading the cassette that the
- whose tab has been removed, use adhesive tape to The cassette is equipped with a safety tab to prevent accidental erasure. When the tab is removed, recording is impossible. If you wish to record on a cassette reseal the slot.
 - do not open the front tape cover.



Rear view

11/11/2012

power adapter/battery charger, optional BH-V5E car battery charger or AP-P1E car battery cord for

Wiewfinder cable connector (VF)

Connect the viewfinder cable.

wards the tape; pressing it in the Play mode allows fast playback (three times normal speed in SP Pressing this button in the Stop mode fast formode, seven times normal speed in LP mode)

MONITOR button

Push this button when you wish to rehearse shots before actually recording them. This function without recording it. Push the STOP button to allows you to view the scene on the viewfinder release this function.

PLAY button with LED indicator

STOP button with LED indicator Press to start playback.

Press to engage the Stop mode.

REW/SHUTTLE SEARCH button with LED Press to view a still picture during playback O PAUSE/STILL button with LED indicator

Pressing this button in the Stop mode rewinds the mode, seven times normal speed in LP mode). indicator back

LED indicators light. To start recording, press the tape; pressing it in the Play mode allows fast playin reverse (three times normal speed in SP Press to engage the Recording Standby mode in which both the REC STBY and PAUSE/STILL recording start/stop button @. While recording, the REC STBY LED indicator is blinking. REC STBY button with LED indicator 0

World of free manuals

O POWER switch

Press to turn power on. The STOP LED indicator will light. Press again to switch off power. SP/LP recording mode select switch

LP to record at a slower tape speed, allowing an Set to SP to record at standard tape speed. Set to extended recording time of up to one hour with a single cassette

Earphone jack (PHONE) REMOTE control jack

For connection of the optional RM-P1U pause remote control unit.

Both audio and video signals are available from

To dub from this unit, connect the A/V input connectors of a second recorder to this connector, For playback with a TV, connect the RF-P1E RF unit (provided) to this connector and to the using the provided dubbing cable.

To open the cassette holder.

@ EJECT button

® Counter display

Battery warning

Exclusive microphone

Omnidirectional condenser microphone for simultaneous sound recording. It can be replaced with

White balance sensor window other microphones.

Allows light to enter for measuring the camera-to-Allows light to enter for white balance adjustment Auto-focus sensor window

Press this button once to fade out the picture to a subject distance. FADER button

white blank screen. For fading in, first press it twice to engage the fade-in standby mode and, after starting recording, press the button where fade-in is to begin. **BLC** button

Iris control is always automatic. For backlight compensation, press this button. While it is being pressed, the iris is 1-2 f-stops wider than that adjusted automatically.

Pressing this button puts the focus and white balance under automatic control. Auto-focus can be cancelled by pressing the FOCUS button; autowhite balance can be cancelled by pressing the filter button. Pressing the FULL AUTO button FULL AUTO button

in the full-auto mode has no effect.

Select the filter position depending on the source of light if the auto-white mode is not used. Filter select button

* under a halogen or tungsten lamp.
 * under daylight.
 The filter position is changed each time this button is pressed. Check on the viewfinder squeen.

Place your thumb on this grooved area next to the

start/stop switch between Start/Stop operations. For connection of the provided AA-V2EG

DC INPUT terminal

Battery pack release button

Memory mark

Wiewfinder mount

@ QUICK REVIEW button

Minimises noise bars, if observed, during playback TRACKING control Condensation warning: Appears when excessive condensation occurs inside

"T" for telephoto and For automatic zooming; ® Power zoom buttons "W" for wide-angle

@ Grip strap

Manual zoom lever macro shooting.

"O", and the tape will stop automatically at the

to locate later after resetting the tape counter to counter reading of around "0" during rewind or

Press this button at a point on the tape you want

Press to reset the counter to "0"

RESET button

8 8

MEMORY button

the unit.

Use to turn the zoom ring manually. Manual focus lever

® Focus ring

Cap the lens when not in use.

Insert a VHS-C video cassette for recording or

Press this button in the Recording Standby mode (with the REC STBY button pressed) to start recording. Pressing it again re-engages the Record-

ing Standby mode

Recording start/stop button

8

playback

POCUS select button

to MANUAL to focus manually. Check on the viewfinder screen. The focus mode is reversed each time this button is pressed. The auto-focus mode can also be selected (together with the auto-white Switch to AUTO for automatic focus, and switch mode) by pushing the FULL AUTO button.

® Battery pack mounting position DC power supply.

battery pack.

Slide in the direction of the arrow to detach the

Attach the provided viewfinder.

Tape counter

Condensation warning

ment for confirmation, press this button from the about 2 seconds of programme time and played back automatically for this section, after which it will stop in the Record-Pause mode in standby for If you want to review the end of the recorded seg-Record-Pause mode; the tape will be rewound for the next shot.

Memory mark: Appears when the MEMORY but-

Tape counter: Shows from "0" to "9999"

Battery warning: Flashes when the battery power

ton @ is pressed.

becomes insufficient for normal

operation.

11/11/2012

Secures the operator's hand to the hand grip.

Turn the zoom ring while pressing this button for Macro button

Use to turn the focus ring manually.

For monitoring the scene being shot or the playback picture after recording. Several indicators are

Electronic viewfinder

8

fast forward.

Eyelets for shoulder strap

included.

Cassette holder

88

Lens cap

Tripod mounting socket

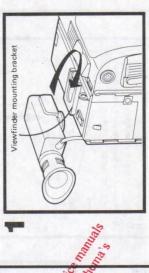
BASIC PREPARATIONS

LIVE RECORDING HAS NEVER BEEN SO EASY

Mounting the Viewfinder

Switch off power before mounting or removing viewfinder

Mounting the viewfinder



Pros Service

Ship of the state of the state

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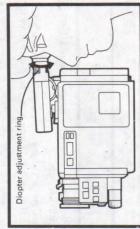
the mounting bracket on the body and slide the fixture into the bracket while pressing Align the viewfinder's coupling fixture along-

Connect the viewfinder cable to the viewfinde

cable connector (VF).

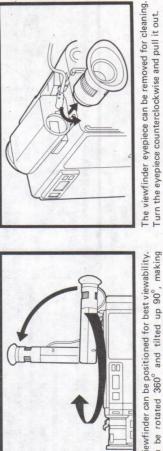
Diopter adjustment

Removing the viewfinder



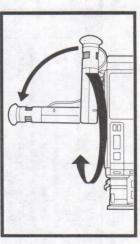
operator's eyesight by rotating the diopter adjust-The viewfinder lens can be adjusted to suit the ment ring.

Cleaning the viewfinder



Pull out the viewfinder cable and slide the viewfinder out of the bracket while applying downward pressure.

Positioning the viewfinder



To play back the recorded tape, press

(Refer to page 13 for details.)

Pop in a cassette.

3 Press POWER

Set tape speed to SP or LP.

5

REW button and then PLAY.

To end recording, press STOP button.

push start/stop button).

Stop recording (Shoot (push sta

t/stop button).

8 6

(Refer to page 12 for details.)

Attach the battery pack.

(Refer to page 10 for details.)

Mount the viewfinder

Press FULL AUTO button. Press REC STBY button.

9

Full-auto outdoor recording procedure

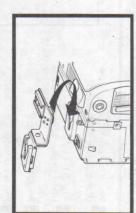
It can be rotated 360° and tilted up 90°, making The viewfinder can be positioned for best viewability. almost any viewing angle possible.

9

DC INPUT termina

Attaching the Shoe Adapter

Use this adapter to re-position the viewfinder for left-eye viewing, or for additionally attaching the character generator or an external mike.



finder and slide the adapter into the bracket To attach the shoe adapter, remove the viewusually used for the viewfinder.



Use the other shoe for an additional item.

•Never attempt to use these power supply units with any equipment other than the

specified.

supply.

VideoMovie.

No function is available without power Do not use any power supply other than

CAUTION

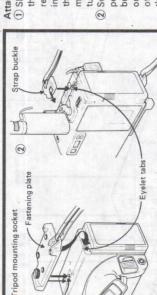
slide it into the shoe that is farthest from the To position the viewfinder for left-eye viewing, camera body.

Where AC power is not available

CAUTION

 Do not attach a video light, otherwise its heat could cause malfunctioning of the GR-C7E.

Attaching the Shoulder Strap



Attaching the Shoulder Strap

1) Slide the strap's fastening plate onto

into the slot in the strap ring. Align the eyelet tab on the camera body's rear, bottom edge, inserting the tab the large screw over the tripod mounting socket and screw it in, turning clockwise.

2) Swing the viewfinder up to the perpendicular position. Slide the buckle at the other end of the strap onto the eyelet tab on the top edge of the GR-C7E while drawing back the spring-loaded locking pin.

Adjusting the Grip Strap

the lens grip. Adjust the length of the strap to suit your hand size and refasten the Velcro strip. Pass your right hand through the loop and grasp

Separate the Velcro strip to expand the loop.

With AC power

The convenient 3-way power supply system gives you a choice of the most appropriate power supply unit,

depending on the application.

POWER SUPPLY SYSTEM

Use the provided AA-V2EG AC power adapter/battery to AC outlet DC INPUT termina AA-V2EG

In a car

Align the marks.
 Slide the battery pack in the direction

of the arrow until it locks.

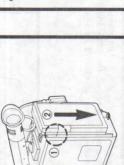
NB-P8U (Super high-capacity)

To attach

NB-P6U (Medium-capacity)

Use the battery packs: •NB-P5U (Regular) NB-P7U (High-capacity)

Use the optional AP-P1E car battery cord or BH-V5E car battery charger. Leave the car's engine idling when using the car battery. (For use with 12-V negative-grounded cars only.)



To the DC INPUT-terminal of the GR-C7E

DC plug

BH-V5E

To remove

 Slide the battery pack release button.
 Remove the battery pack by sliding it in the direction of the arrow.

To car's cigarette lighter socket

Cigarette lighter plug



- For charging the battery packs refer to page 29.



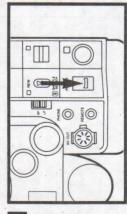
To car's cigarette lighter socket

AP-P1E

Remove the battery pack when not in use.

LOADING AND UNLOADING A VIDEO CASSETTE

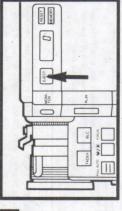
LOADING

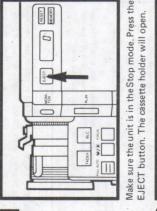


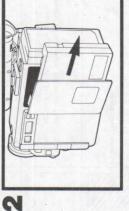
Press the POWER switch to turn power on.

N

UNLOADING



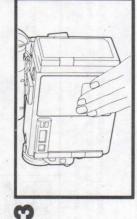




MENCHY MENCHY

0

Remove the cassette.



Close the cassette holder by pushing its center

Insert the cassette with its printed arrow facing

outward.

When not in use, switch off power.

the

First remove tape slack, then insert cassette correctly. See page 5.

Do not repeat loading and unloading of the cassette without running the tape, as this will slacken the tape, causing tape damage.

When the battery is discharged, the tape is unpressing the POWER switch while holding the EJECT button pressed, turns the power on and loaded and the power turns off. However, ejects the cassette.

The viewfinder of the GR-C7E provides comprehensive on-screen indications. During recording or rehearsal, you

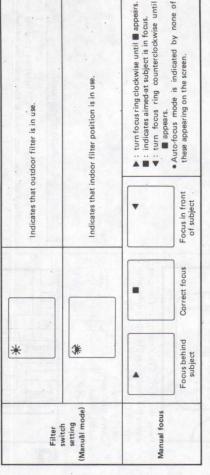
can refer to adjustment aids or warnings.

Recorder status indications

VIEWFINDER INDICATIONS



Camera status indications



Warnings

When time for remaining tape reaches a few minutes, "R begins blinking.	When battery power becomes insufficient for normal operat	When amount of light is insufficient, "LIGHT" appears blinks.	If focus detection is difficult because of low contrast, to focus-aid indicators appear simultaneously and blink.
V Blinking	- Blinking	Blinking t	
00/4	BATTERY	-Tuent	V ,
Tape-end warning	Battery warning	Low-light warning	Low-contrast warning

4

Close the cassette holder by pushing its centre area.

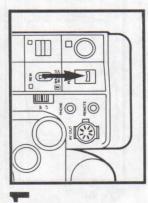
3

button.

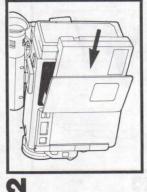
Open the cassette holder by pressing the EJECT

11

RECORDING OPERATION



Press the POWER switch to ON.



nsert a video cassette correctly (with its safety tab in place).

Precautions for auto-focus

-Focus detection zone



picture, which varies depending on the zoom and focus conditions, is used to indication A small area around the centre of the focus. (No actual provided on the screen.) detect

CAUTION

Do not touch the focus ring while the auto-focus mechanism is in operation.

Set the tape speed to SP or LP.

100 0

THE WASHING

W

4

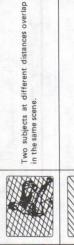
POWER

0

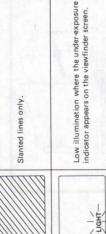
O O O

focus mode with power on; otherwise light entering the When not in use, do not leave the GR-C7E in the Autoauto-focus sensor window will operate the auto-focus mechanism, consuming power.

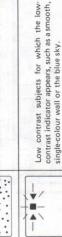
tions. In such cases manual focusing should be performed Correct focus may not be obtained in the following situato obtain proper focus.



Press the REC STBY button. The unit enters the Recording Standby mode (with the REC STBY and PAUSE LED indica-







If the lens and/or auto-focus sensor window are smeared with stains or blurred with condensation, accurate focusing is not possible. Keep them clean. If they become dirty, wipe with a piece of soft cloth. When condensation occurs, dry them by wiping with a soft cloth or wait for conditions in which they become dry.

*: when you shoot in the daytime outdoors.
• For manual focus, press the FOCUS button to MANUAL. A focus-aid indicator will appear

on the viewfinder.

 Press the filter button so that the required *: when the subject is illuminated by a

symbol appears on the viewfinder.

halogen or tungsten lamp.

One-hour recording

3

- To record longer on a single cassette, use the LP (Long. Play) mode
- For LP recording, a higher-capacity battery pack may be
 - nsed.

• III

M DO

•SP: 30 minutes LP: 60 minutes

Auto or manual?

 Iris control is always automatic. Therefore, possible combinations of auto and manual functions are as follows:

Control	FIII	-		FOCIS
Function	AUTO	*/*	FOCUS	*/*
White balance	Auto	Manual	Auto	Manua
Focus	Auto	Auto	Manual	Manua
Iris	Auto	Auto	Auto	Auto

EJECT

MON

1

Check the view

tors lighting).

tions. See page

14.

5

finder indica-

*[

THE TOTAL OF THE T	Function	AUTO	条/米 Focus 条	FOCUS	I W
	White balance	Auto	Manual	Auto	Σ
REC.	Focus	Auto	Auto	Manual	Σ
For full-auto operation, press the FULL	Iris	Auto	Auto	Auto	-
AUTO button.					
For manual override, use the filter and FOCUS					

QD 6

Determine the focus and composition by referring to the viewfinder image. For zooming, see page 22.

Manual focus

If the manual focus mode is selected, proceed as follows:

(1) Zoom in on a subject by Teocus onto it by turning pressing the 'T" button. the focus ring.

3 Determine the composition by pressing the 'W" button.



When you use the manual focus mode, be sure to focus the lens in the maximum telephoto position. If you focus focused images cannot be obtained when zoomed up in on a certain subject in the wide-angle position, sharplyfield is reduced at longer focal the depth of because lengths.

Rehearsal

FOCUS INDICATORS

The focus indicators on the viewfinder screen function in the manual focus mode.

Condition	Indication	Corrective operation
Focus point behind the subject	A	Turn the focus ring clockwise until the centre square lights.
Correct focus	•	Keep the focus ring in the same position.
Focus point in front of the subject		Turn the focus ring counterclock wise until the centre square lights.
Indication not possible because of low contrast		Estimate the subject distance and set the focus ring referring to the distance scale on it.

hearsal, press the REC STBY button. To

the STOP button. is loaded or not. The power save circuit does not funcduring rehearsal. (For power save

function, see page 20.

 With a cassette loaded, rehearsal is not possible during rewind or fast forward.

compose scenes, etc., without actually

wish to rehearse shooting angles

nok

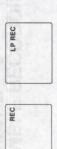
press the MONI-

recording on the tape,

TOR button, instead of REC STBY. The aimed-at scene will appear on the viewfinder screen. For full-auto rehearsal, also press the FULL AUTO button. To engage the Recording Standby mode from reonly disengage the Rehearsal mode, press Rehearsal is possible whether a cassette

Press the start/stop button.

the viewfinder screen to appear, showing that recording is actually taking place. This causes REC or LP REC on



To stop recording temporarily, press the start/stop button once again. To restart recording, press the start/stop For a pause longer than 5 minutes, press

the POWER switch to OFF.

ly. To restart recording, turn the power on. This makes clean assembled record-If the Recording Standby mode con tinues for longer than about 5 minutes, the unit switches itself off automaticalings possible even after a long pause.

Backlight compensation

it is being pressed, the iris is Press the BLC button. While 1 - 2 f-stops wider than that adjusted automatically.



When excessive lighting is located in back of the subject, correct exposure may not be obtainable. To compensate for this, use BLC.



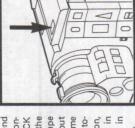




With BLC

Quick Review function

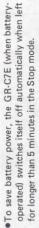
2 2 of the last recording for confirmation, press the QUICK REVIEW button from the Record-Pause mode; the tape If you want to review the end will be rewound for about 2 seconds of programme time and played back autofor this section, after which it will stop the Record-Pause mode standby for the next shot. matically



- Distortion might occur when playback starts. This is The TRACKING control should be at its centre position.
- Assemble recordings
- playback, the picture may be slightly distorted at the point between separate takes. This is not due to any Repeating steps 8 and 9 produces assemble recordings. In defect of the unit.
 - If recording is restarted from the Stop mode, a few frames of the previously recorded picture is replaced with a new recording. To avoid this, follow the technique described in "Assemble Recording Technique-2" on page 20.

(40)

POWER SAVE AND TAPE PROTECTION CIRCUIT Battery operation



Warnings

Fape-end warning

matically if left for longer than 5 minutes in the To protect the tape, the GR-C7E (regardless of whether battery-operated or AC-powered) releases tape tension slightly and switches itself off auto-Recording Standby (Record-Pause) mode.

For the same reason, the GR-C7E enters the Stop mode and switches itself off automatically if left for longer than 5 minutes in the Still (Play-Pause) mode

> "REC" or "LP REC" on the viewfinder screen blinks When the end of the tape is reached during recording, the

faster a few minutes before the end of the tape.

Stop mode engages automatically.

stopped, press the POWER switch to

To end recording, press the STOP button. After making sure that the tape has

•Ш

.à 2

POWER OFF POWER OFF 5 minutes 5 minutes Battery/AC operation REC PAUSE STOP



5 minutes

If the battery warning appears in the viewfinder or the counter display while recording, stop recording by pressing the POWER switch to

When the battery power is coming to an end, a battery

Counter Display

Viewfinder

BATTERY

-Blinking

Battery warning

Blinking

Viewfinder Monitoring

warning indication appears both in the viewfinder and the counter display. Replace the battery pack with a fully •After these indications appear, the power turns off autoswitch while holding EJECT button pressed, turns the

Press the POWER switch to ON.

The unit will be in the Recording Standby 3

Press the recording start/stop button to start recording. 4

TECHNIQUE — 1 (To replace the battery pack during recording) **ASSEMBLE RECORDING**

OFF, not the STOP button.

Replace the battery pack with a charged one.

matically. In this state, however, pressing the POWER

charged one.

power on and ejects the cassette.

Rewind the tape to a point from which you

want to check the recording.

Press the PLAY button, and you can view the

playback picture on the viewfinder screen.

ASSEMBLE RECORDING TECHNIQUE — 2 (To record onto a partially recorded tape)

Play back the tape to a point where you wish a Use the SHUTTLE SEARCH button for faster new recording to start.

location.

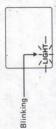
Press the PAUSE/STILL buttton at the located The unit will enter the Still mode. point. N

Press the REC STBY button.

The unit will enter the Recording Standby mode.

Press the recording start/stop button to start recording 4

Low-light warning



is also possible in both

Shuttle search finder screen. directions.

 Pressing the PAUSE/STILL button during playback stops the picture on the view-

finder screen, the amount of light is insufficient. Increase •If the blinking "LIGHT" indicator appears on the viewthe lighting.

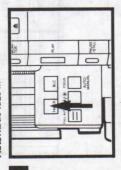
19

SPECIAL TECHNIQUES

Fade-in/out

The GR-CZE is equipped with an automatic fade mechanism for allowing smooth fade-in and fade-out with a white-coloured blank screen. Audio also fades with video.

Automatic fade-in



Determine the composition in the Recording Standby mode and press the FADER button twice to set the fade-in standby mode. The screen will become white quickly.

Press the start/stop button and press the FADER button. Fade-in will start and be completed in about 3 seconds.

4

N

NOTE

 If you want to delay the start of fade-in, press the start/stop button and, after a desired time has elapsed, press the FADER button.

Fade-in





Fade-out

Press the FADER button where you want fade-out to start. The fade-out will be completed in about 3 seconds.

4

N

Automatic fade-out Start shooting as usual.

Free service manuals Stop shooting by pressing the start/stop button after 198-info Gratis schema's

Zooming

the image appears to come nearer to or When the focal length of the lens is varied by turning the zoom ring, retreat from the viewer.

Power zooming

Press "T" for zooming in and "W" for zooming out. Zoom in











Zoom out







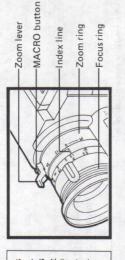


Manual zooming

Rotate the zoom lever downwards for zooming in and upwards for zooming out.

Macro Shots

By setting the lens to the Macro mode, it is Normally, focusing is possible only for subjects possible to manually focus in on any subject located inside that limit, right up to the front of that are more than 1 m away from the camera. the lens. The MACRO and ZOOM ranges combined give continuous shooting ability from closeup to infinity.



N

Focus by turning the zoom

the macro

While pressing in

button, turn the zoom ring in the direction of the arrow until the number "9" on the

 Use the zoom ring to focus in the MACRO range. Turning the focus ring will slightly

the index

zoom ring passes



Release MACRO

Engage MACRO

ring slowly.

nisms do not function during macro The zoom and auto-focus mechaalter the angle of view of the lens.

turn the zoom ring in the direction of the arrow until the number "9" passes the To release the Macro mode, index line.

The GR-C7E permits playback of recorded VHS-C video cassettes. For connections refer to pages 25 and 26.

PLAYBACK

Preparation

the TV receiver's channel selector to your video channel (specified AV channel). Set the aerial select switch of the RF-P1E RF unit to VIDEO and

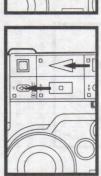


(Battery or AC operation: see Connect a power supply unit. page 12.)

Shuttle Search

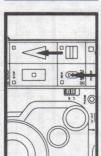
Still playback

Fast-speed reverse playback Fast-speed playback in the forward direction



Play mode. Playback will be speeded up to 3 times normal speed in SP mode, 7 times normal speed in LP mode, as long as the button is being the FF button in the pressed. Press

mode.



10 0

> in the reverse direction at 3 times Press the REW button in the Play The tape will be played back normal speed in SP mode, 7 times normal speed in LP mode, as long as the button is being pressed.

Press the PAUSE/STILL button After about 5 minutes of still during playback. The picture will stop on the screen.

tape protection and switches itself off.

playback, the unit enters Stop mode automatically

RESET

The GR-C7E incorporates a counter memory mechanism which facilitates locating a specific tape segment.

Counter Memory Function

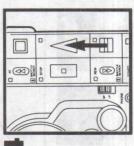
 The counter memory function is effective in the Fast Forward mode as well.

 To cancel the memory function, press the MEMORY button.

 When the power supply unit is disconnected, all indications on the counter display disappear and the counter memory function is cancelled after about 30 seconds.

will automatically stop at the counter reading of around "0".

the REW button. The tape



any defect of the unit.

 Noise may appear or pictures may become monochrome from time to time during Shuttle Search and still playback. This is not due to

> Press the PLAY button. Playback will start.

> > nsert a pre-recorded cassette

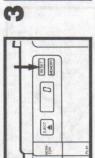
Press the POWER switch to

ON

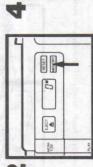
then insert the cassette First remove tape slack, correctly. See page 5.

The SP/LP switch may be in either position. The SP or LP mode recording is autoed back at a correct speed matically detected and playrespectively.

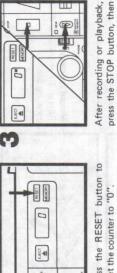
the Rewind mode engages When the end of the tape is reached during playback,



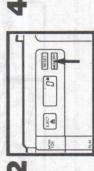
reset the counter to "0".



Press the MEMORY button. The "M" mark will appear.



Press the RESET button to



0

direction to minimise noise bars. After playing a particular tape, return the TRACKING control to the centre position.

If noise bars appear on the screen, adjust the TRACKING control. Turn it slowly in either

Tracking adjustment

7.3

Press the PLAY button to start playback.

23

0 10

VIDEO CHANNEL, otherwise playback may be

receiver, use a TV receiver having a specified AV channel and employ this AV channel as your disturbed with vibrating or bending pictures. AV channels refer to channels exclusively for video these channels, the playback pictures can be stabilised. Recent TV receivers have one or more

To view the GR-C7E recordings

CAUTION

playback; because of AFC circuits applied to

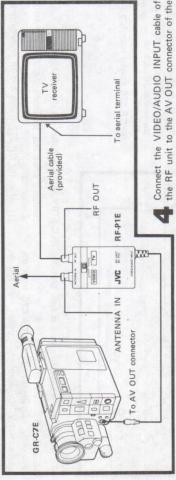
a TV

with

TAPE DUBBING OR EDITING

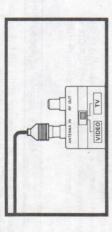
CONNECTION TO A TELEVISION FOR PLAYBACK

The GR-C7E includes playback circuits and allows playback of pre-recorded cassettes simply by connecting to a television set.

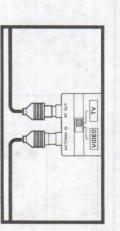


Remove the aerial cable from the TV receiver.

Connect the aerial cable to the ANTENNA IN terminal of the RF unit. N



Connect the RF OUT terminal of the RF unit to the aerial terminal of the TV receiver using the provided aerial cable.



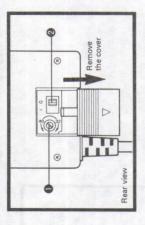
PRECAUTIONS FOR RF-P1E

- For exclusive use with the GR-C7E VideoMovie. •Do not disassemble or remodel the RF-P1E.
 - Do not expose it to strong shocks.
- during lightning storms. (Never touch the aerial cable.) equipment connected • Unplug

GR-C7E.

B 0 TO AV OUT TIP-1100 SVC

channel output Adjust the RF converter outpur according to your VIDEO CHANNEL 10



B RF converter channel adjustment screw

your TV receiver, tune its specified AV channel to UHF channel 36. If channel 36 is employed for The RF unit permits playback of video and audio recordings through a TV receiver. The signals from not used for broadcasting in your area. The output frequency of the RF converter has been set to correspond to a broadcast on UHF channel 36. To view playback pictures from the GR-C7E with RF unit are viewed through a vacant channel

broadcasting in your area, readjust the RF converter output channel to one of the vacant channels between 32 and 40.

- 1. Set the AV channel of the TV receiver to one of the vacant channels.
- Rehearsal mode (see 2. Power the GR-C7E.

 3. Put the GR-C7E in the
 - Set the VIDEO/TV switch of the RF unit to page 17). VIDEO
- 5. While monitoring the output signal on the TV screen, turn the RF converter channel adjustment screw

 so that the monitored picture comes in most clearly.

AV channels,

OPERATION

GR-C7E

When you wish to view video cassette programmes, always select the AV channel on the TV receiver which has been tuned to the output frequency of the RF converter.

To view video cassettes or to monitor the recording, set the VIDEO/TV switch of the RF unit to VIDEO

and the TV channel selector to the channel corre-

sponding to the RF output channel. Viewing television programmes

Set the VIDEO/TV switch to TV, and the TV receiver

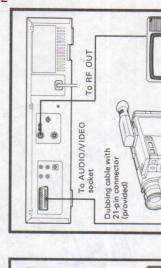
will function as usual.

Viewing video cassettes being played back with the

TV system select switch (I/G)

0

to When you use a TV receiver built to the British PAL standard, shift the system select switch 2



To RF OUT

To VIDEO IN and AUDIO IN connect

Operation

To AV OUT

Dubbing cable with BNC and RCA con-nectors (provided)

To AV OUT

·Put the GR-C7E in the Play mode and the con-

Connection

- 1. Connect the AV OUT connector of the GR-C7E to the AUDIO IN and VIDEO IN connectors of the video recorder using either of the provided dub-
- Connect a television to the video recorder to bing cables, depending on the deck you are using. monitor the picture while dubbing.

nected recorder in the Record mode to copy the recording. To edit out unwanted material, press the recorder's PAUSE button.

USING THE GR-C7E AS A VIDEO CAMERA

can be used as an independent video camera in For continuous documentation of longer events, the GR-C7E combination with either a deck-type or portable video recorder

The VHS compact video cassettes recorded with the GR-C7E can be played back with a standard VHS machine A compact video cassette installed in the cassette adapter is fully compatible with a standard VHS machine for

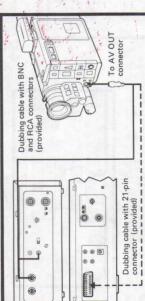
by using the provided C-P3U Cassette Adapter.

both recording and playback.)

USING THE CASSETTE ADAPTER (provided)

Using a recorder not equipped with a 10-pin camera connecto

●Connect the AV OUT connector of the GR-C7E to the AUDIO IN and VIDEO IN connectors of the video recorder using either of the provided dubbing cables, depending on the deck you are using



Operation

1. Press the MONITOR button. The camera output signal is now available via the dubbing cable.

Being battery-operated, the C-P3U performs tape loading and unloading automatically.

C-P3U Cassette Adapter

will start. Tape start/stop should be controlled with the recorder's Put the connected recorder in Record mode. Recording the

before. press REC STBY and then the start/stop while another tape loaded in the connected recorder follow the same recording procedure as mentioned continues running. To record on the GR-C7E's tape,

buttons.

Loading dial

tinuous recording and an edited-out recording of the

Using a recorder equipped with a 10-pin camera connector

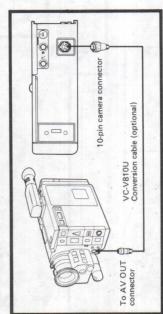
button.

same event simultaneously, because the GR-C7E's •In this configuration, it is possible to obtain a con-

Note:

start/stop button only controls the tape inside itself

Connect the AV OUT connector of the GR-C7E to the 10-pin camera connector of the second recorder using the optional VC-V810U conversion cable.



Operation

2. Put the connected recorder in the Recording Standby (Record-1. Press the MONITOR button.

Pause) mode.

Sliding latch

VHS compact cassette

tion corresponds to the state of The viewfinder's mode indicathe connected recorder.

For more details refer to the instruction manual of the C-P3U.

Press the start/stop button of the GR-C7E to start recording.

picture may vibrate or During special-effects playback (slow motion, noise bars may appear on the screen. still frame, etc.) the

 To view compact video cassettes recorded with VideoMovie using a cassette adapter, employ the AV channel of a TV receiver.

Note:

•To record on the GR-C7E's tape as well, press the REC STBY button and then the start/stop button.

Precautions

- Power is not supplied to the GR-C7E from the connected VCR. Independent power supply is required for both the GR-C7E and the VCR.
- olf you stop recording by pressing the GR-C7E's start/stop button, the connected VCR also stops in the Pause mode. However, the pause command signal is not delivered to the connected VCR in the

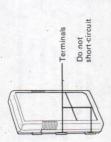
- becomes discharged.
- Therefore, before replacing the battery or tape for the GR-C7E, put the connected VCR either in the (2) when the VC-V810U cable is disconnected. STOP or REC LOCK mode

CHARGING THE BATTERY PACK

To charge the battery pack, use the exclusive AC power adapter/battery charger AA-V2EG (provided/optional) or car battery charger BH-V5E (optional)

A WORD ON THE EXCLUSIVE NB-P5U/P6U/P7U/P8U BATTERY PACKS

The NB-P5U/P6U/P7U/P8U are nickel-cadmium batteries. Give attention to the following to make the most of their characteristics.



Temperature ranges:

The recharging time is based on room temperature of 20°C. The lower the temperature, the longer the recharging time.

-10°C to 40°C 10°C to 35°C For operating: For charging:

The battery pack has been kept in the uncharged state for shipment. Therefore, before use, charge it.

Align the marks.

N

- •To avoid hazard:
- Do not burn.
- Do not short circuit the terminals. Do not modify or disassemble.
- Use only specified chargers.
- To prevent damage and prolong service life: Avoid dropping, unnecessary shocks
- deliver less recording time per charge, purchase Near the end of its service life, when it begins to Avoid repeated charging without discharging. This unit has a limited service life:
- It is normal for the unit to be warm after charging a replacement.
- This is a chemical reaction type battery; its properties are best maintained under the follow-
- Optimum charging takes place at temperatures between 10°C and 35°C. Cooler temperatures Store in a cool dry place. Extended exposure impede chemical reaction. Warmer temperatures can prevent complete charging.
- Total natural discharge may occur during long to high temperatures will increase natural disstorage periods (uncharged storage is prefercharge and shorten service life. 3

Slide the battery pack in the direction of the

arrow until it locks in place.

Connect the AC power cord to a wall outlet.

- Remove from charger or powered unit when able; recharge one day before use)
- not in use; some machines use current even when switched off.



PRECAUTIONS FOR AA-V2EG

water and metallic objects

Prevent inflammables,

reception.

from entering the unit.

Do not disassemble or modify the unit.

www.frcescrvicemanuals.info

Recording time for the GR-C7E

VB-P7U 60 min.	NB-P8U 120 min.
30 min. NE	45 min. NE
NB-P5U	NB-P6U

The recording time per charge is influenced by the duration of recording standby, frequency of zooming, etc. It is safer to have spare battery packs.

Charging procedure

NB-P5U 6	30 min.	NB-P7U	90 min.
AID DOIL	. w 02	ND DOLL	120 min

temperature and the condition of the battery pack. •When sliding the battery pack on or off the charger, make sure that the charger's POWER switch is set to OFF.

The charging time differs depending on the ambient



When charging is completed, the CHARGE indicator goes out.

- position after the CHARGE indicator goes out, additional charging continues •If the POWER button is left in its ON with a small amount of current.
- Faint oscillation may be heard at the start of charging. This is not due to any defect of the unit



Press the POWER switch to OFF.

 The battery pack becomes warm immediately after being charged. This is not due to any Remove the battery pack by sliding it off. defect of the unit.

indicator will light first, then the CHARGE

indicator will light in a few seconds.

Press the POWER switch to ON. The POWER

The optional BH-V5E Car Battery Charger can charge the batteries from a car battery. For details refer to the instructions of the BH-V5E.

Viewfinder

0

CG-P50E

CHARACTER GENERATOR (optional)

impose the date, titles and lap time on your recordings. Record

The separately available character generator enables you to superdates as a reminder of the exact day a certain memorable event took place. Compose creative titles to give tapes more personality. Superdrama to their viewing. Various techniques are possible to introduce

Connection cable (provided with CG-P50E)

8 0

CREATE DUPL MONITOR

CHARACTER

0 =

V

0

GR-C7E

THE DE AND

2 III 30 20 OATE

TITLE

0-0-0

N N N

ID RESE

(a)

imposing the lap time on some sports or action scenes can add extra

to

(1) Connect the viewfinder cable to the

character generator.

Mounting the character generator

CG-P50E

号

more variety to your video productions.

Slide the character generator into viewfinder cable connector 2) Connect the character generator

(VF) the

the accessory shoe.

SYSTEMS FLEXIBILITY

For maximum enjoyment, make the most of the provided or optional accessories depending on the situation. For availability (whether provided or optional) refer to page 36.

(I) Regular battery pack NB-P5U F Page 12

battery pack NB-P6U 2) Medium-capacity

3 High-capacity battery pack NB-P7U Page 12

battery pack NB-P8U 4) Super high-capacity Page 12

F Page 12

5 Car battery charger BH-V5E F Pages 12, 29 and 30 Use to charge the battery GR-C7E using a car pack, or power the battery.

6 AC power adapter/battery Pages 12, 29 and 30 Use to power the GR-C7E rent or charge the battery with household AC curcharger AA-V2EG/EK pack.

7) Car battery cord AP-P1E For power supply from a F Page 12 car battery.

Dubbing cables

0

video recorder for dubbing. Use either dubbing cable, you are using to connect the GR-C7E to a second F Pages 26 and 27 depending on the deck



Use to carry the GR-C7E

(8) Carrying case CB-V50U

A/V extension cable VC-P2U Use to extend the A/V

GR-C7E to a regular TV F Pages 25 and 26 receiver for playback.

(1) Conversion cable VC-V810U GR-C7E to a VCR with a For connecting the Page 27

10-pin camera connector.

12 Remote control unit RM-P1U Controls recording start/ stop from a distance. Page 33

13 Shoulder strap VU-V17U shoulder in readiness for Carry GR-C7E from shooting.

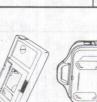
Use to attach microphone, character generator, etc. F Page 11 14 Shoe adapter

Scharacter generator CG-P50E Allows superimposition of titles, dates and lap time during recording. Page 32

16 Compact video cassette EC-30 recording and playback in SP mode, and 60 minutes of recording and playback Allows 30 minutes of Page 5 in LP mode.

pact video cassette to be Enables the EC-30 com-(7) Cassette adapter C-P3U used with regular VHS machines.

together with accessories.

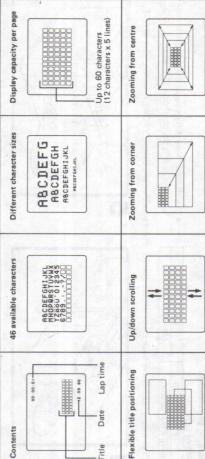


Litle

 For more details refer to the instruction manual Titles can be held in memory for about one year. of the CG-P50E. Two scroll pages, each storing up to 37 lines of Twelve different pages are available for titling.

(Of them, four can be used for zooming titles.)

12 characters, are also available for titling.



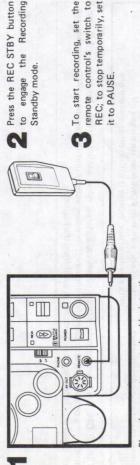
(1) Carrying bag CB-V21U Use to carry the GR-C7E together with basic accessories.

Use to connect the

10 RF unit RF-P1E

REMOTE CONTROL UNIT (optional)

The remote control unit RM-P1U (optional) permits recording start/stop to be controlled from a distance.



Plug the remote control cable into the REMOTE connector.

EXTERNAL MICROPHONE

The provided microphone can be detached. To use another microphone, do the following:

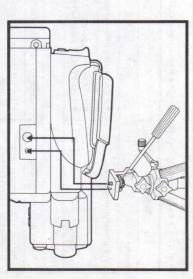


Remove the provided microphone by grasping the microphone's base and then pulling straight out



Plug the external microphone's cord into the microphone jack

TRIPOD MOUNTING



the tripod with the camera's tripod mounting Align the screw and camera direction stud of socket and stud hole, and firmly tighten the

SUPPLEMENTAL INFORMATION

proportions. A relationship exists between the temperature of a light source and the colour components of the emitted ight; as the temperature rises, the colour of the light varies rom red, orange, yellow, white to blue in that order. "Colour among light sources, measured in Kelvin degrees. Bluish light Light is composed of various colour components in different temperature" is a value that expresses differences in colour nas a higher colour temperature than reddish light.

What is "white balance"?

the

ight are recorded as reddish. White balance adjustment is s all about. Because a camera is not as adaptable as the performed to compensate for colour temperature variations of light so that whites are reproduced as white. Correct white balance makes all other colours correct. The GR-C7E can perform automatic white balance adjustment in the full-auto mode. However, if illumination is insufficient, white balance Making the colours look natural on TV is what white balance luman eye, if a light source is reddish, white subjects in that idjustment cannot be performed. To obtain correct colours therefore, sufficient illumination is essential.

What is "illumiance"?

"Illuminance" (also called 'luminance') is the intensity or brightness of light, expressed in lux. The GR-C7E is designed to 15 lux. To obtain good pictures in very bright light, the use of an ND (neutral density) filter is recommended. See provide best pictures under the conditions of a 700-lux Illuminance, although shooting is possible all the way down chart on this page.

How to get good colour pictures

example, if natural light is mixed with artificial light, which is should all have the same colour temperature. For example, it is recommended that incandescent or halogen lamps not be The simplest way is to provide sufficient lighting (close to the camera's reference illuminance) and accurately adjust the camera to the colour temperature of that lighting. If light sources of different colour temperatures are used together ikely to occur next to windows, correct colours of the subthat curtains in the room be closed to shut out light ect are difficult to obtain. It is recommended in such iccurate white balance adjustment is very used together with fluorescent lighting.

Colour temperatures of various artificial lighting

Type of illumination	umination	Colour temperature
Tungsten lamp for home use	home use	2800 K
Tungsten lamp for photographic use	photographic use	2 0000
Quartz-halogen lamp	du	3200 K
Blue lamp for photographic use	tographic use	5000 K
	Warm white	3500 K
Fluorescent lamp	White	4500 K
	Daylight type	6500 K

	o give	
	nated to	
	is chart are approximated	
	are	
	chart	
	this	
hart	On	nce
minance ch	e values on this	ugh reference
Illumi	• The	roug

	mid-day, 100,000) (10:00 a. 55,000) (3:00 p.m 85,000) y (mid-da	sky (10:00 a.m.) under it (25,000)	 By the window during the afternoon (3,500) 	/ sky our after sunrise) (2,000)	Clear sky (one hour before sunset) (1,000)	ers at department stores - 700)	Bowling centre (500) Office under fluorescent light (400 – 500)	Library (400 – 500) Direct light of a flashlight at 1 m distance (250)	Streetlights at night (150 - 200)				Cigarette lighter (at a distance of 30 cm) (15)	lelight distance of 20 cm) (10 – 15)
	Clear sky, sunlight (1 clear sky sunlight (6 clear sky sunlight (6 clear sky sunlight (3 clear sky sunlight (3 clear sky sunlight (3 clear sky sky sunlight (3 clear sky sky sunlight (3 clear sky	• Cloudy sunlight	By the afterno	Cloudy sky (one hour a	Clear sky (one hour	• Counters at (500 – 700)	Bowlin Office (400 –	• Library • Direct Ii	• Street				• Cigare (at a d	• Candlelight (at a distance
Unit: Lux	100,000	10,000	Marketonic na Marketonic na Marketonic na	2,000—	1,000	-009	-009		100	-08		Minimum lighting for an object	15—	10
filter desired	ON	r practical use	Range for			B.A	besired	Lightin			ary	ing necess	тивіл	0.6.0

direct recording

VHS-C cassette 23.39 mm/sec

(LP): 11.70 mm/sec

Recording time

(SP)

Tape speed

Cassette

N CASE OF DIFFICULTY

SPECIFICATIONS

VHS standard

DC 9.6 V ===

8.0 watts

Power consumption

Power source Signal system Recording system

What may initially appear to be trouble is not always a real problem. Make sure first

Symptoms	Check points
Power	
No power is supplied.	Is the battery pack correctly installed? Is the battery pack charged? Is the power supply unit correctly connected? Is the POWER switch of the connected AC adapter set to ON?
Recording	
Recording is impossible.	 Check to see if the cassette safety tab is in place. See page 5.
Picture colours greatly differ from actual subject colours.	ullet in the manual white balance mode, check the setting of the $ killian$ / $ killian$
No sound is recorded with an external microphone.	• Is the microphone's switch set to ON?
Recording does not start.	Have you pressed the REC STBY button first?
Playback	Galling Control
Tape is running, but no playback picture appears.	Is the VIDEO/TV switch of the RE unit serito VIDEO? Is the TV receiver set to your video channel?
Noise bars appear in the playback picture.	Use the TRACKING control to reduce noise bars
Playback picture is blurred or interrupted while TV programmes received are clear.	 Video heads may be dirty or worn out. For head cleaning or replacement, consult the nearest JVC dealer.
Tape transport	
Tape stops during fast forward or rewind.	• Is the "M" indication visible in the tape counter? If so, press the MEMORY button to cancel the memory function.
Rewinding or fast forwarding is impossible.	 Check to see if the tape has already been fully wound on one reel or the other.
Other	
No function is available with more than two mode indicators	• If this should happen when using power supply units other than the battery pack, turn their POWER switch on and off.

The GR-C7E is a microcomputer-controlled device. External noise and interference might prevent it from functioning properly. In such cases, first disconnect its power supply unit (battery pack, AC power adapter, etc.); and then reconnect it and proceed as usual from the beginning.

188(W) × 25(H) × 104(D) mm : AC 110 - 240 V√, 50/60 Hz : Constant current, peak detec-: 57(W) x 67(H) x 200(D) mm (from VideoMovie) 55(W) x 93(H) x 24(D) mm - 40 235 g "R6"-size battery x 1 tion, timer controlled : VHS cassette adapter DC 8 V == 20 mA UHF channels 32 Approx. 700 g Rated output voltage: DC 9.6 V === (adjustable) Power consumption: 30 watts UHF 36 AA-V2EG SPECIFICATIONS Accessory : "R6"-RF-P1E SPECIFICATIONS Rated output current: 1.2 A C-P3U SPECIFICATIONS Charging system Output channel Initial channel Power supply Power source Dimensions Dimensions setting Weight ype Colour: Converted sub-carrier 1 Vp-p, 75 ohms, unbalanced Conforms to VHS standard Luminance: FM recording

(SP): 30 minutes (with EC-30 (LP): 60 minutes (with EC-30

cassette) cassette)

: Approx. 160 g 2.5 m Cable length Dimensions 40 dB (with Rohde & Schwarz (via AV OUT connector)

noise meter)

S/N ratio Output

VIDEO

Output

AUDIO

excl. cable

-6 dBs, 1 k-ohm (via AV OUT Microphone input: -68 dBs, high impedance, : 1/2"-format CCD unbalanced connector

F 1.6, f = 9 - 54 mm, 15 lux (at F 1.6) 15 - 100,000 lux Minimum required Illumination range Illumination Pickup

6:1 power zoom lens with auto iris control and macro position,

: Electronic viewfinder with 0.6" black/white CRT filter diameter 49 mm (3,200 K/5,500 K) Switchable Colour temperature White balance switching Viewfinder

: Full-auto/preset standard Operating humidity: Less than 80% Storage temperature: -20°C to +50°C : 0°C to +40°C Operating temperaadjustment

1.4 kg (with viewfinder) 121(W) × 165(H) × 223(D) mm (incl. viewfinder) Dimensions Weight

Super high-capacity battery pack (1.8 AH) NB-P8U Medium-capacity battery pack (0.7 AH) NB-P6U High-capacity battery pack (1.0 AH) NB-P7U High-capacity battery pack (1.0 AH) NB-P7U AC power adapter/battery charger AA-V2EG RF unit RF-P1E Regular battery pack (0.5 AH) NB-P5U Compact video cassette EC-30 Electronic viewfinder VF-V7E Shoulder strap VU-V17U Carrying case CB-V50U Cassette adapter C-P3U Dubbing cable x 2 Optional accessories Provided accessories Shoe adapter Aerial cable Lens hood Lens cap Grip pad

AC power adapter/battery charger AA-V2EG/EK Car battery charger BH-V5E Car battery cord AP-P1E Compact video cassette EC-30 Remote control unit RM-P1U A/V extension cable VC-P2U Character generator CG-P50E Conversion cable VC-V810U Shoulder strap VU-V17U Cassette adapter C-P3U Carrying case CB-V50U Carrying bag CB-V21U

Design and specifications subject to change without notice.

SECTION 1 DISASSEMBLY

1.1 DISASSEMBLY

1.1.1 Electronic viewfinder removal

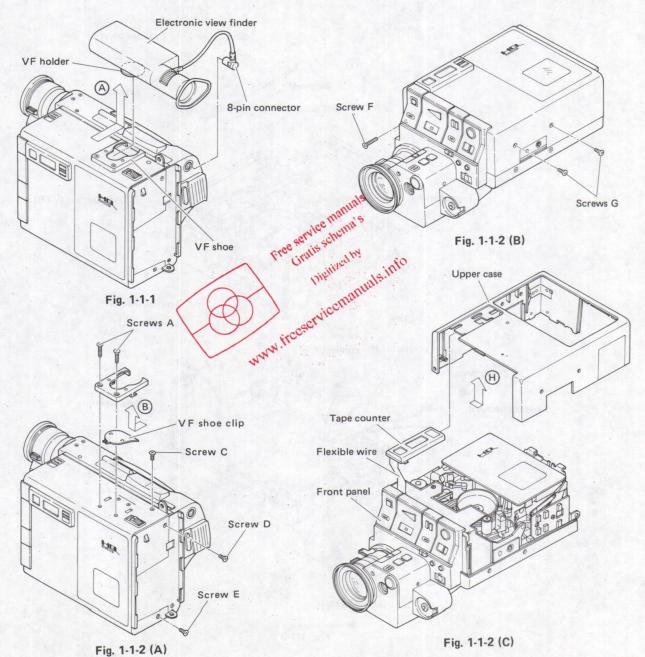
Refer to Fig. 1-1-1 and disengage the 8-pin connector.
 While gently pressing the viewfinder upward, slide it in the direction shown by the arrow (A) to remove it.

1.1.2 Viewfinder shoe and upper case

 Take out two screws indicated by A in Fig. 1-1-2(A). Raise the shoe as indicated by arrow B and remove the show and shoe clip.

- Refer to Fig. 1-1-2(A) and 1-1-2(B), and take out screwsC, D, E, F and G (two screws).
- 3. As shown in Fig. 1-1-2(C), a plastic tab joins the upper case to the front panel. Gently press at the location of the tab and slide, then raise the upper case as indicated by the arrow (H). Raise it only slightly to allow detaching the tape counter (use care not to damage the flexible cable of the counter), then remove the upper case completely.

Note: The two screws A of Fig. 1-1-2(A) are the longest.



1.1.3 Cassette cover and deck section

- Refer to Fig. 1-1-3 and take out two screws A that secure the cassette cover. Raise the cassette cover as indicated by the arrow B to remove it.
- 2. Take out two screws C and remove the base assembly.
- 3. Take out three screws D and one screw E.
- 4. The front panel and side panel are engaged by a plastic rim. Carefully squeeze the portions of the side panel indicated by the arrows (K) between thumb and forefinger and raise the deck section slightly to disengage it.
- Disconnect five connectors F, G, H, I and J. The deck and operation sections can then be separated from the camera section.

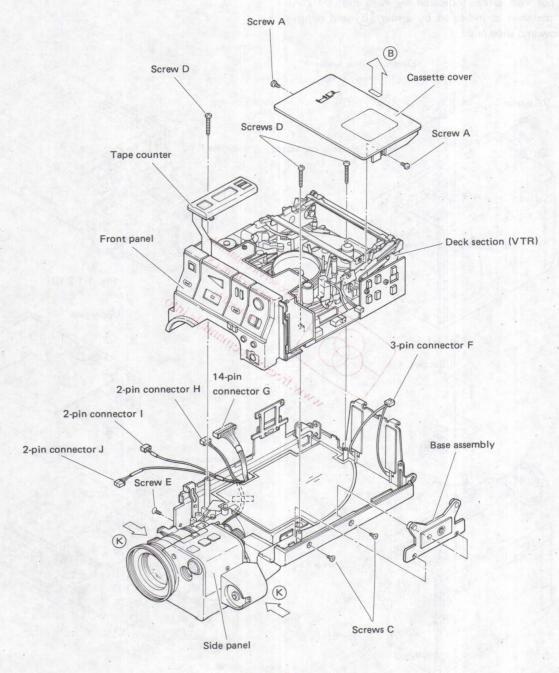


Fig. 1-1-3

1.1.4 Lower case

- Refer to Fig. 1-1-4. Take out screws A and B, and remove the insulator sheet.
- 2. Take out screws C, D and E. Disengage the side panel from the lower case by shifting and raising it as shown by the arrow (F). Disconnect the connector G.
- Remove the screw H, screw I and plate J. Then take out screws K and L.
- Raise the camera section slightly and disconnect connectors M, N and O (which are connected to the EE and IND board) to remove the camera section from the lower case.

Note: Use care not to damage the wires and flexible cables.

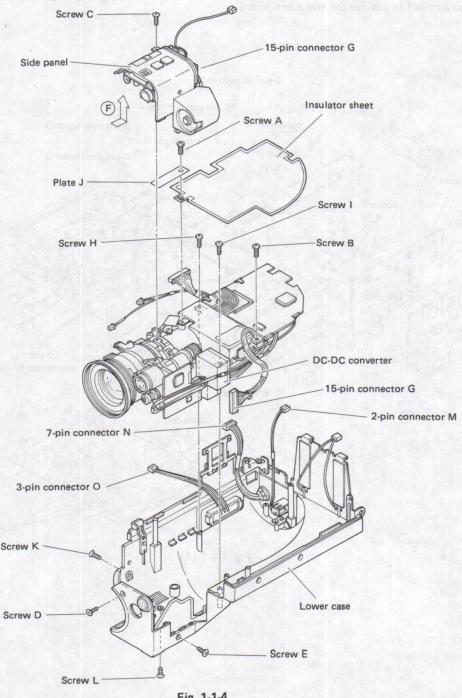


Fig. 1-1-4

1.2 CIRCUIT BOARD REMOVAL

1.2.1 Deck section

- Refer to Fig. 1-2-1 and remove the front panel in the direction shown by the arrow A. Then take out three screws B and two screws C to remove the operation board. Use care regarding the front panel push buttons.
- Take out screws J and K, and remove the shield plate.
 Then remove the skew jump board and Y/C board in the direction D and disconnect connector E, which is connected to the pre amp board.
- 3. Take out the screw F. Peel off two strips of tape that secure the main board. Disconnect twelve connectors G and remove the main board in the direction (H).

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4. Take out two screws I to remove the end alarm board.

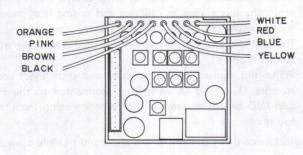


Fig. 1-2-1 (B) Pre amp wires location

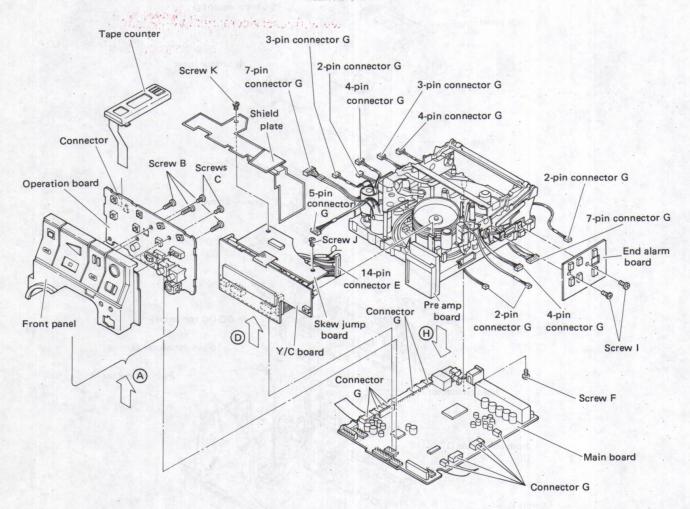
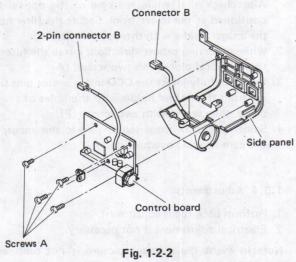


Fig. 1-2-1 (A)

1.2.2 Control board

 Refer to Fig. 1-2-2 and take out four screws A. Disconnect connector B and remove the control board from the side panel.



1.2.3 Camera section

- Refer to Fig. 1-2-3 and disconnect the connector A. Remove board holders B and C in the directions D and E.
- Remove the regulator board and EE & IND board in the directions F and G.
- The regulator board is attached directly to the EE & IND board by an 8-pin connector. Similary, the EE & IND board is attached directly to the camera board by three connectors.



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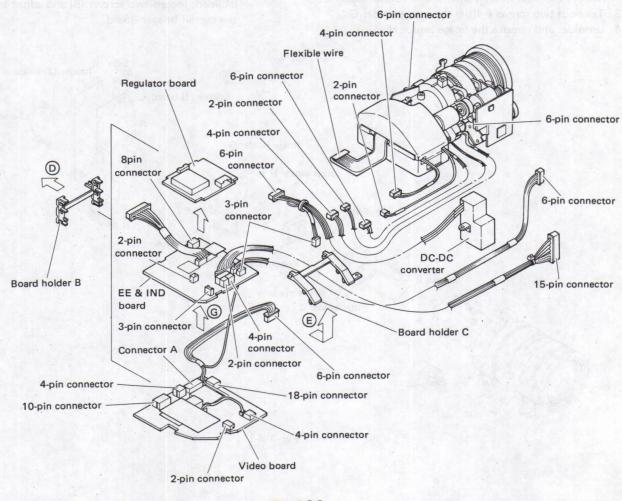


Fig. 1-2-3

1.3 IMAGE SENSOR REPLACEMENT

1.3.1 Precautions

- The CCD image sensor is subject to electrostatic breakdown in the manner of C-MOS devices, but even more so. Storage, handling and soldering must be performed with the precautions appropriate to such devices.
- Use care to protect the optical surface of the CCD image sensor from soiling, scratches, fingerprints, etc. If soiled, clean gently with silicon lens tissue, chamois, etc.
- An orange protector seal is applied to the CCD image sensor before shipment from the maker. Do not remove the seal until immediately before installing the sensor in the optical block.
- Perform soldering quickly. The optical filter of the CCD image sensor can be discolored by excessive heat.

1.3.2 CCD image sensor removal

- Refer to Fig. 1-3-1 and take out two screws A. Separate the optical block and the Imager board.
- 2. Take out three screws B from the filter holder C and remove the filter holder, filter D and rubber spacer E.
- 3. Take out two screws F from the image holder G.
- 4. Unsolder and remove the image sensor H.

1.3.3 CCD image sensor installation

- 1. Remove the protective seal from the CCD image sensor and place it on the imager holder (G). Then atop these, place the rubber spacer, optical filter (D) and filter holder (C). Observe that the CCD image sensor is correctly oriented with respect to the imager holder board. Also check that while marking of the optical filter is positioned at the lower front. Secure the filter holder to the imager holder with three screws (B).
- 2. While observing proper direction, install the filter holder to the optical block with two screws (A).
- 3. Very carefully insert the CCD image sensor pins protruding from the imager holder into the holes of the imager board, then secure with two screws (F).
- 4. Solder the CCD image sensor pins to the imager board.

 Use care to avoid overheating.

1.3.4 Adjustments

- 1. Perform back focus adjustment.
- 2. Electrical adjustment is not necessary.

Note: In event the monitor picture is not centered or is inclined, loosen two screws (8) and adjust by shifting the overall Imager Board.

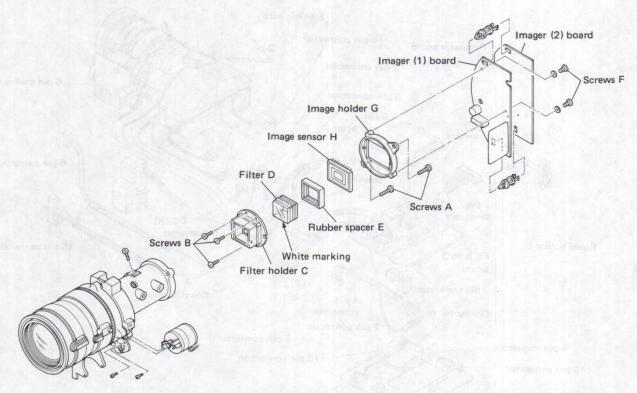
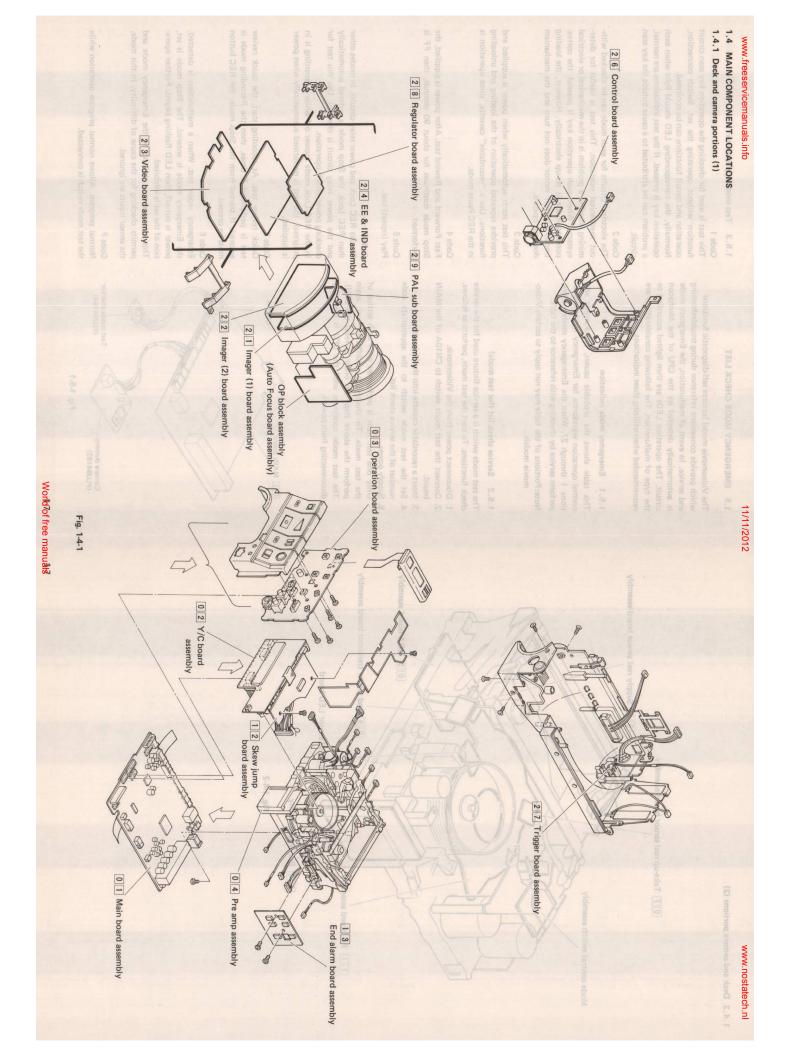
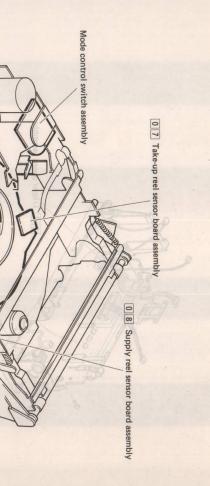


Fig. 1-3-1



1.4.2 Deck and cemara portions (2)



0 4 Pre amp assembly

1 0 End sensor LED board

0 9 End sensor transistor board assembly

0 5 MDA board assembly

1 1 FG board assembly

Fig. 1-4-2

1.5 EMERGENCY MODE CHECK LIST

The Videomovie model features self-diagnostic functions which provide convenient reference during troubleshooting and service. In event of malfunction, the Emergency mode is automatically detected by the CPU of the Mechacon circuit. The operation LEDs are then lighted according to the type of malfunction. The following considerations are recommended when utilizing these indications.

1.5.1 Emergency mode indication

This table shows the probable causes, checkpoints and normal operation waveforms for Emergency mode indications 1 through 27. When the Emeragency mode occurs, perform service by checking with reference to the table.

Note: Portions of the table may not apply to certain Videomovie models.

1.5.2 Service check list (for test mode)

The test mode switch is a service fixture used for the service check functions. To start the test mode, perform as follows.

- 1. Disconnect power from the Videomovie.
- Connect the test mode switch to CN10A of the MAIN board.
- 3. Insert a recordable cassette into the Videomovie.
- 4. Set the test mode switch to the appropriate code number of the service check list.
- 5. Supply power.

Only one test item is performed with each setting of the test mode. To change to a different test, again perform the above steps (in order to reset the CPU). The test mode continues until the CPU is reset (by disconnecting from power).

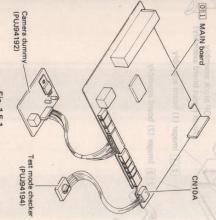


Fig. 1-5-1

1.5.3 Test mode applications

Code 1

This test is used for checking the operation key scan circuit function without operating the set. Switch connection, operation and circuit functions can be conirmed.

Normally, the corresponding LED should light when each operation key is pressed. If the test indications are normal, a problem can be attributed to a cause outside the key scan circuit.

Code 2

The electrical circuits for each mode can be checked without mechanical operation. This test is useful for determining whether a problem is in the mechanical or electrical
systems. When each operation key is pressed, the corresponding mode is set-up electrically. However, the loading
(mode control) motor does not turn and the machanism
does not operate.

Code 3

This test starts automatically when power is supplied and provides repeated operation of the loading and unloading functions. Use a "recordable" cassette, since operation is in the REC Pause mode.

Code 4

Fast Forward and Rewind test. After power is supplied, the Stop mode continues for about 90 seconds, then FF is performed.

Code 5

Play (repeat) test.

Code 7

Check REC Lock and power relay circuits. In modes other than REC Lock, the Stop mode is entered automatically and the power relay circuit is checked. Use this test for checking power on/off operation.

In the REC Lock mode (power off while a recording is in progress), the test is performed automatically when power is supplied.

Code 8

Ouick review test. At recording start, the quick review test is performed 5 times, then the Recording mode is entered. If started from the Stop mode, the REC button must be pressed.

Emergency repair test. When a malfunction is detected, the Emergency mode is entered. The Stop mode is set, power is cut-off, then LED flashing begins. Further operation of the set is inhibited.

This test prevents shifting to the Emergency mode and permits checking for the cause of difficulty. In this mode, the sensor inputs are ignored.

Code

Normal program. Allows normal program operation while the test mode switch is connected.

1.6 APPEARANCES AND WIRINGS OF CABLES

Audio/Video cable assembly

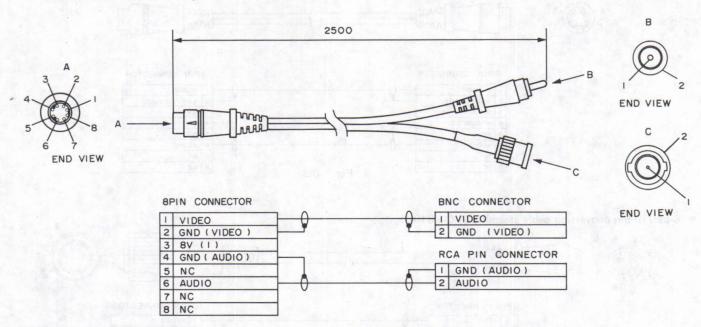


Fig. 1-6-1

• 21-pin/8-pin

Conversion cable assembly

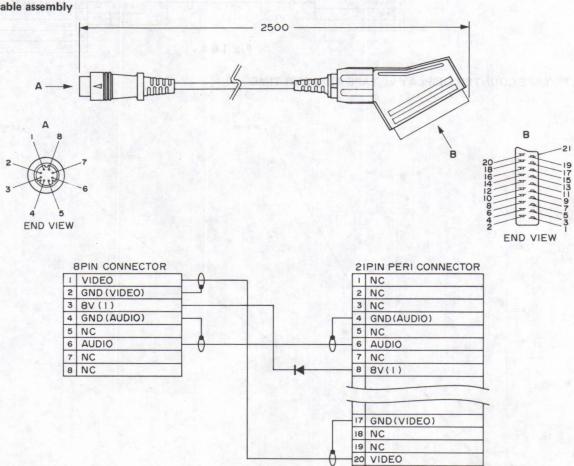
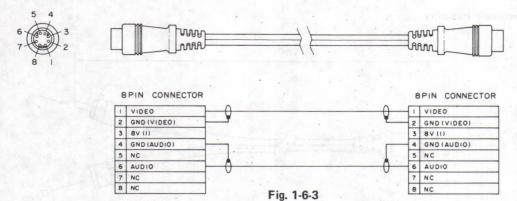


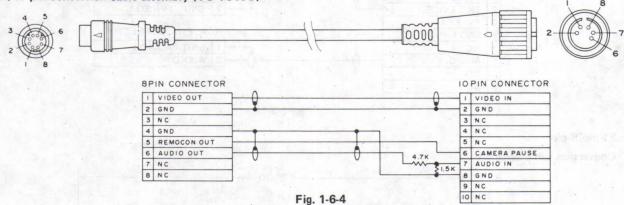
Fig. 1-6-2

21 NC

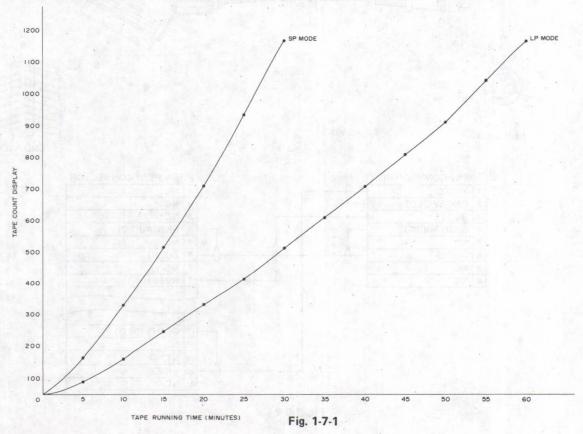
Audio/Video extension cable assembly (VC-P2U)



• 8-pin/10-pin conversion cable assembly (VC-V810U)



1.7 TAPE COUNTER DISPLAY vs. TAPE RUNNING TIME



SECTION 2 MECHANICAL ADJUSTMENT

2.1 BEFORE PROCEEDING

- This section describes procedures for replacing mechanical parts which have become defective due to wear or other reason.
- Perform carefully since mechanical and electrical adjustments are interrelated. In some cases, the mechanical adjustments form the basis for electrical adjustments.
- To observe the loading operation without using a cassette tape, cover the end sensor with black tape and close the cassette switch contacts. Turn the reel disk by hand in order for loading to proceed (unloading is performed if reel rotation stops).

2.2 SERVICE FIXTURES AND TEST EQUIPMENT

- 1. Table 2-1 indicates the special service fixtures required for this model.
- 2. In addition to these, the following tools and test equipment are also required.
 - Properly adjusted color TV monitor
 - Oscilloscope, wideband, dual-trace with delay function
 - Hexagonal (Allen) wrenches, inch sizes (including 0.135 Inch) 0.135 Inch = 0.89 mm
 - Spare cassette tape (for recording and running checks)
 - Precision (jewelers) screwdrivers

Also refer to the section on Electrical Adjustments.

Note: Adjusting jigs and equipment for electrical adjustment, refer to the section.

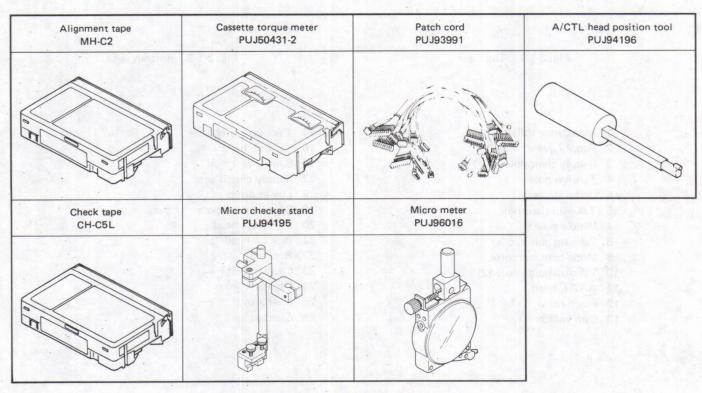


Table 2-1 Jigs and adjusting equipment

2.3 MAIN PARTS LOCATIONS

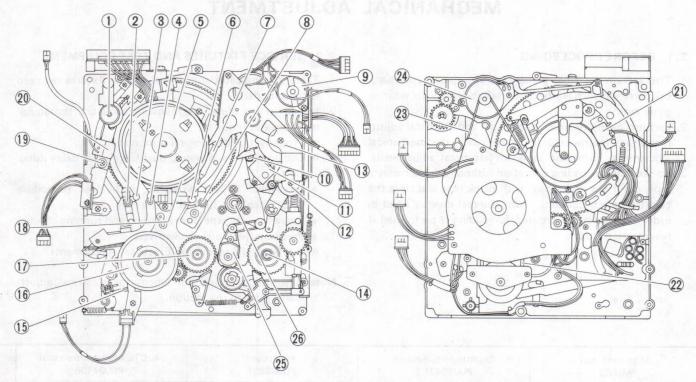


Fig. 2-1-1 Top view

Fig. 2-1-2 Bottom view

- 1 Impedance roller
- 2 Supply guide roller
- 3 Supply slant pole
- 4 Tension pole
- 5 Upper drum
- 6 Take-up slant pole
- 7 Middle pole
- 8 Take up guide roller
- 9 Mode control motor
- 10 Take-up guide pole (2)
- 11 A/CTL head
- 12 Pinch roller
- 13 Cam switch

- 14 Take up clutch gear
- 15 Tension band
- 16 Supply reel disk
- 17 Supply clutch gear
- 18 Lower drum
- 19 Supply guide pole
- 20 Full erase head
- 21 Pick up head
- 22 Reel belt
- 23 Capstan belt
- 24 Capstan motor
- 25 Idler arm
- 26 Capstan

2.4 MAIN ASSEMBLY REPLACEMENTS

As required for replacing parts, remove the external covers, circuit boards, shield plates and cassette housing.

2.4.1 Cassette housing

 Take out 4 screws that secure the cassette housing to the deck and replace the housing. After replacing, carefully and repeatedly observe the basic transport operations, including cassette insertion and removal, Fast Forward and Rewind. Confirm absence of unusual noise or damage to the tape.

2.4.2 Reel disk

- Remove the slit washer and the reel disk. Note the washer at the bottom of the disk.
- Clean the reel shaft with alcohol, then apply a small amount of light oil.
- 3. Replace the reel disk and confirm back tension (section 2.5.5).

2.4.3 Tension band

- 1. Remove the reel disk.
- While using care in regard to the compressed spring, remove one screw and one washer.
- Disengage the spring from the deck and replace the tension band.
- 4. Assemble the new tension band and reel disk.
- Perform tension pole position adjustment and back tension check (section 2.5.5).

2.4.4 Capstan motor

 After replacing the capstan motor, perform capstan servo sampling position adjustments.

2.4.5 Drum assembly

The upper drum, lower drum and preamp assembly of this model are matched at the time of production. Therefore, replace these as a complete assembly (the preamp is preadjusted with respect to the heads).

If replacing only the upper drum is unavoidable, perform the following.

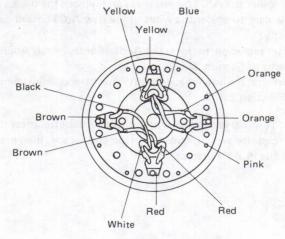


Fig. 2-2

- Unsolder the lead wires of the upper drum relay pins.
 Take out 2 screws and remove the upper drum in the upper direction.
- Install the new upper drum while using care not to touch the head tips or scratch the drum.
- After replacing, refer to Section 2.6 and perform checks and adjustments of the tape transport, servo circuit, recording and play-back color level, and FM recording level.

Also perform preamp adjustment.

Note: Perform recording and play-back in the LP mide. If picture jitter is severe, loosen the drum screws and reinstall it. Then tighten the screws.

2.4.6 A/CTL head

- Without a cassette tape, perform loading. Cut the power just at the point the loading operation is complete.
- Disconnect connector CN13 of the MAIN board (servo section).
- 3. Take out the 3 screws securing the A/CTL head. Remove the head together with the head spring.
- 4. Unsolder the A/CTL head wires and replace the head.
- Use care to solder the wires to the new A/CTL head correctly.
- After replacing, perform the Audio/Control Head Adjustments of Section 2.7.2.
- 7. Perform the interchangeability checks and adjustments of Section 2.7.3.

Note: To observe loading without using a cassette, press the cassette switch, cover the tape end sensor, then press the PLAY button.

2.4.7 Full erase head

- The full erase head is replaced without removing the supply guide pole.
- Remove the slit washer and the spring, then remove the roller arm in the upward direction.
- Gently press the erase head arm in the outward direction and remove the screw from the rear of the deck. Then remove the full erase head from the erase head arm and replace.
- 4. Install the new full erase head in the proper position.

 Use a spare cassette tape and observe the tape running in the area of the supply guide pole.
- 5. If tape curling or wrinkling occurs, perform supply guide pole height and interchangeability adjustments (sections 2.6.1 and 2.7.1).

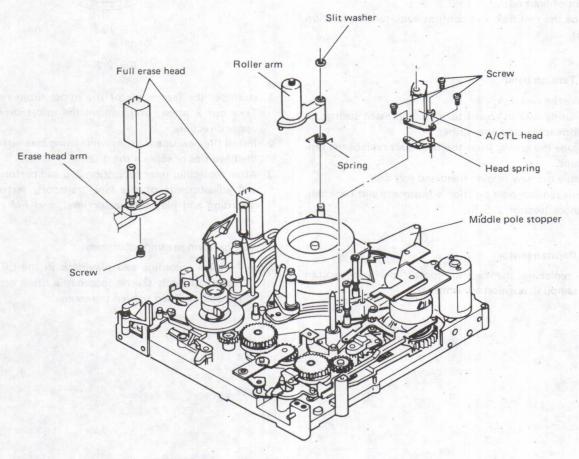


Fig. 2-3 A/CTL head and full erase head

2.5 CHECKS AND ADJUSTMENTS

After reassembling the following parts, be sure to confirm their positional relationships.

2.5.1 Mode control switch

1. In the Stop mode, confirm that the mode control switch appears as indicated in Fig. 2-4.

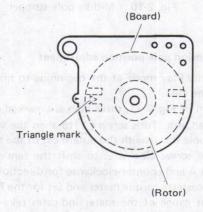


Fig. 2-4 Mode control switch

2.5.2 Pinch roller arm

 In the Stop mode, confirm the relative positions, particularly the engagement of the gear teeth, of the pinch roller arm and pinch roller bar as indicated in Fig. 2-5.

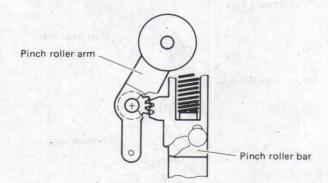


Fig. 2-5 Pinch roller arm

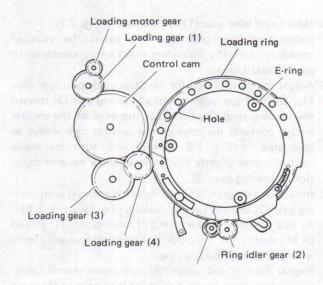


Fig. 2-6 Loading gear (3)

2.5.3 Loading gear and loading ring assemblies

Set to the mechanical Stop mode before removing or replacing the loading gear and loading ring assemblies.

- Turn the take-up and supply loading rings in the unloading direction so that the 2nd and 3rd holes and teeth of the take-up and supply loading rings overlap each other. Use care not to apply excessive force.
- Install the rings in this configuration. At this time, it may be easier to secure one of the three E-rings completely first (see Fig. 2-6).

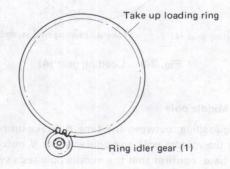


Fig. 2-7 Loading ring

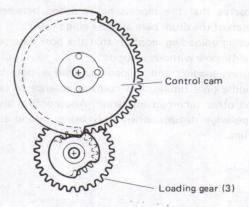


Fig. 2-8 Loading gear (3)

- 3. Mount ring idler gear (1) as indicated in Fig. 2-7.
- Install ring idler gear (2). If it cannot be installed smoothly, turn the unloading ring slightly clockwise to permit installation.
- 5. Adjust the control cam for the Stop mode position. (See Fig. 2-4) Set the larger wedge of loading gear (3) toward the loading ring. Confirm that the edge of the smaller wedge contacts the edge of the control cam wedge as illustrated in Fig. 2-8. If necessary, turn the mode control motor slightly clockwise to allow easier installation of loading gear (3).
- 6. Install loading gear (4) with its teeth engaged with loading gear (3) and the take-up loading ring. (See Fig. 2.6) At this time, the marked teeth of loading gear (4) should be at roughly the 3 o'clock position and engaged evenly with the take-up loading ring.
- Repeat loading and unloading operations several times.
 Confirm that the marked teeth of loading gear (4) come to correct position with respect to the loading ring and that mechanical operation is normal.
- 8. If mechanical operation is incorrect, again perform reassembly. Use care not to damage loading gear (1).

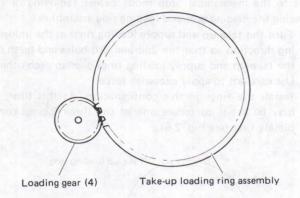


Fig. 2-9 Loading gear (4)

2.5.4 Middle pole

- During loading, between the time the take-up pole base passes the middle pole and contacts the V notch of the drum base, confirm that the middle pole rests symmetrically in the notch of the middle pole stopper.
- After completion of loading, operate the tape transport. Observe that the tape is not pinched between the V notch of the drum base and the guide roller.
- During unloading, confirm that the pole base passes the middle pole without snagging.
- 4. During loading and unloading, observe pole base and middle pole timing, and confirm absence of tape slack and other incorrect operation. Also confirm absence of tape edge damage when it is being wound about the drum.

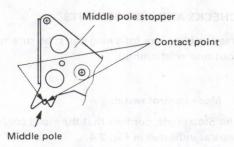


Fig. 2-10 Middle pole stopper

2.5.5 Tension pole position adjustment

- Set for the Play mode at the beginning to midway portion of the tape.
- 2. As shown in Fig. 2-11, three lines are marked on the full erase head arm. Turn screw 1 to align the edge of the tension pole flange with the outermost of the three lines. Turn the screw clockwise to shift the tension pole in direction A and counter-clockwise for direction B.
- 3. Use the cassette torque meter and set for the Play mode. The right gauge of the meter indicates take-up torque and the left gauge shows back tension. Confirm readings of 40 to 75 gf. cm and 15 to 24 gf. cm respectively for the right and left gauges.
 - If outside of specifications, check the tension pole position and if necessary, replace the tension band (section 2.4.3). Severe variation may necessitate replacing the reel disk (section 2.4.2).
- 4. After adjustment, eject cassette and apply screw sealant to screw 1.

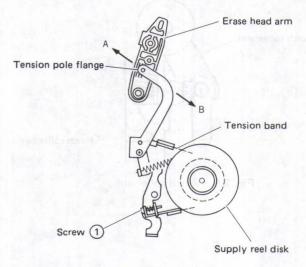


Fig. 2-11 Tension pole

2.6 TAPE TRANSPORT SYSTEM CHECKS AND ADJUSTMENTS

The tape transport system has been precisely aligned at the factory and normally does not require readjustment. The following check is therefore necessary only in cases of severe usage or when replacing parts affecting the tape transport system.

2.6.1 Guide rollers

Guide roller height adjustment is required in order to attain FM waveform linearity at the drum input and output sides during interchangeability adjustments. To adjust guide roller height, loosen the setscrew (0.89 mm hex) and turn the guide roller with a flat blade screwdriver.

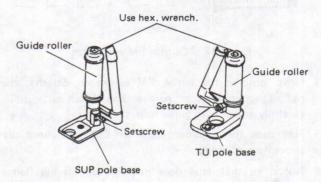


Fig. 2-12 Guide roller

Use a spare cassette (not Alignment tape) and while the tape is running, inspect visually for smooth transport at the drum input side and along the drum lead channel. If necessary, adjust the supply guide roller height.

Inspect the tape transport at the drum output side and if necessary, adjust the take-up guide roller height.

2.6.2 Supply guide pole

This guide pole serves to improve tape transport stability between the cassette output and drum input by maintaining the required height.

After adjusting the supply guide roller, this is adjusted to obtain smooth tape transport at the lower flange of the guide pole.

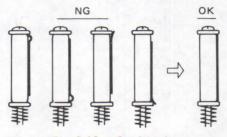


Fig. 2-13 Guide pole

2.6.3 Audio/control head inclination (take-up guide pole)

This is a vital adjustment for interchangeability. After adjusting the take-up guide roller, observe the tape transport at the lower flange of the take-up guide pole. Use a cross-head screwdriver and turn screw B counter-clockwise to where wrinkles begin to appear in the tape at the lower flange.

Then gradually turn the screw B clockwise to the point where the wrinkles no longer appear.

Azimuth and height of the audio/control head are adjusted during interchangeability adjustments.

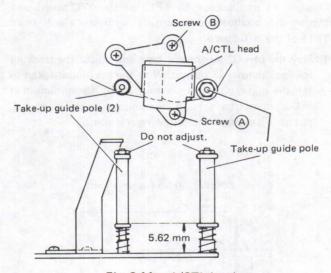


Fig. 2-14 A/CTL head

2.7 INTERCHANGEABILITY CHECKS AND ADJUSTMENT

Before using costly Alignment tape, use a spare cassette and confirm proper tape transport without damage to the tape. If a discrepancy is noted, make sure eliminate the cause of improper tape transport.

2.7.1 FM waveform

The FM waveform checks and adjustments are performed using the stairstep signal of the MH-C2 Alignment tape. Connect an oscilloscope to TP13 of the Y/C board and trigger the oscilloscope externally with the signal from TP11 of the Y/C board.

 Play the MH-C2 Alignment tape and adjust the tracking for maximum FM output. With the maximum taken as (a), the minimum center output as (b), the minimum at the drum input as (c) and the minimum at the drum output as (d), confirm the following relationship.

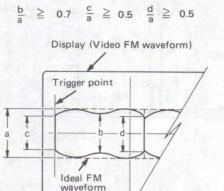


Fig. 2-15 FM waveform

 Operate the tracking control and vary the FM waveform from maximum to minimum, then from minimum to maximum. Observe the waveform portion corresponding to the drum input and confirm essentially parallel variation. However, if the variation is in a see-saw pattern, the supply guide roller height requires adjustment.

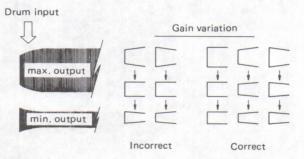


Fig. 2-16 Input FM waveform variation

- In other words, the tape is not properly following the drum lead at the drum input side. Adjust the supply guide roller height so that the variation is as parallel as possible.
- Similarly, observe the FM waveform portion corresponding to the drum output and if necessary, adjust the take-up guide roller height so that the variation is as parallel as possible.

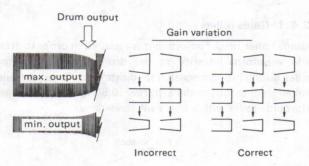


Fig. 2-17 Output FM waveform

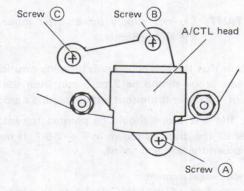
- Next, observe the entire FM wavefrom. So that the overall variation is as parallel and linear as possible, carefully adjust both guide rollers.
- 5. Play back the alignment tape CH-C5L and check the above item 4. again.
- Adjust so that tape does not ride up on the flange during loading, shift from Search REW to Play, and When the tension pole is engaged.
 - If wrinkles or creases are observed at the take-up guide pole, adjust the audio/control head inclination with attention to the tape transport at the lower flange of the pole.

2.7.2 Audio/control head adjustment

Incorrect position of the audio/control head reduces the play-back audio output, impairs S/N and in severe cases, interferes with servo stability due to inability to pickup the control signal.

Observe the audio signal waveform by connecting an oscilloscope to TP302 of the MAIN board or directly to the audio output terminal.

- Play the stairstep (audio 6 kHz) section of the MH-C2 Alignment tape.
- 2. Adjust the azimuth by turning screw (C) for maximum audio output.
- 3. Adjust the height by turning screws (A), (B) and (C) by small and equal increments (about 45°) at a time for maximum audio output.



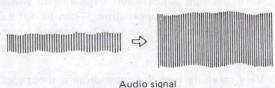


Fig. 2-18 A/CTL head adjustment

Again check the FM waveform. If acceptable, carefully tighten the setscrews of the guide rollers. Since this may disturb the FM waveform, check again after tightening the screws.

Note: Precisely adjust 2.7.1 and 2.7.2 (simultaneously).

2.7.3 Control head phase

Perform after adjusting SP/LP control delay MMV and tracking preset. Observe the FM waveform by connecting an oscilloscope to TP13 of the Y/C board. Trigger the oscilloscope externally with the signal from TP11 of the Y/C board and set the slope to minus (—) to observe the CH1 waveform. Set the tracking control to the center click position.

- 1. Play the stairstep section of the MH-C2 Alignment tape.
- Slightly loosen screws and of the audio/control head. Place the A/CTL head positioning tool over screw with the pin of the tool inserted in the adjustment hole near the screw.
- 3. Turn the tool counter-clockwise to position the audio/control head fully toward the capstan side.
- 4. Gradually turn the tool clockwise while observing the FM waveform. At the first output peak, stop turning and immediately tighten screw (E). Then tighten screw (D).

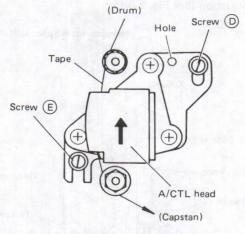


Fig. 2-19 Control head phase

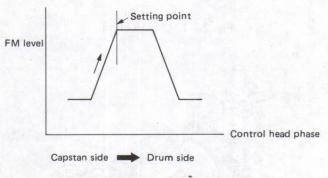


Fig. 2-20 Control head phase

Play back the alignment tape CH-C5L, and turning the tracking volume control confirm that FM waveform becomes maximum at the center click position.

2.7.4 Finel checks

- Supply a video or TV signal input, record and play-back.
 Confirm that the FM waveform conforms to the video FM waveform specifications (SP and LP modes).
- Refer to Electrical Adjustments and perform overall checks and adjustments of the servo, video and audio circuits.

2.8 MICROCHECKER INSTRUCTIONS

1. The Microchecker is employed for adjusting eccentricity of the upper drum (to within 2 microns).

2. Handling cautions

- 1) This is a high precision instrument which must not be dropped or subjected to strong shock or vibration.
- 2) Do not apply strong force to the test probe.
- 3) The outer dial can be turned in the range of about 7 scale divisions. Do not apply strong force (exceeding 300 gcm) when turning.

3. Construction (See Fig. 2-8-1)

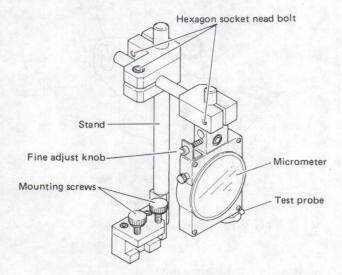


Fig. 2-8-1 Construction

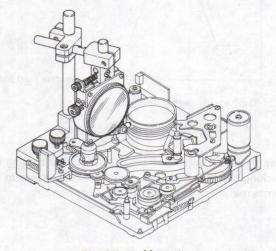


Fig. 2-8-2 Mounting

4. Preparation

- 1) With the cassette housing in the lowered position, supply power. Press the Play button and carefully observe the pole base movement. Again press the Play button and cut the power at the point the pole base is positioned farthest from the cassette housing (to avoid interference with the Microchecker).
- 2) Remove the cassette housing and clean the upper
- 3) Turn the fine adjust knob of the Microchecker counter-clockwise.
- 4) Unscrew the two mounting screws sufficiently to allow mounting, then attach the Microchecker top the main deck as shown in Fig. 2-8-2. Observe that the bracket is perpendicular to the main deck. Use care that the Microchecker (especially the test probe) does not contact the video heads.

IMPORTANT: Do not supply power after mounting the Microchecker.

5) Confirm that the Microchecker is properly positioned. The test probe should be 2 to 5 mm from the top edge of the upper drum (but not contacting a groove). Also, the test probe should be pointed toward the center of the drum as shown in Fig. 2-8-2. If necessary loosen the bolt and adjust.

5. Eccentricity measurement

- 1) Turn the fine adjust knob clockwise to where the probe contacts the upper drum. Then turn the outer dial to set the scale to an easily observed indication (e.g., zero). The outer dial turns in the range of about 7 scale divisions.
- 2) Very carefully turn the upper drum without applying pressure to it (use a non scratching object such as a drinking straw or toothpick to turn the drum). Confirm needle deflection within 2 microns.
- 3) If deflection is greater than 2 microns, the upper drum position must be adjusted.
- 4) Turn the fine adjust knob to separate the test probe from the upper drum. Loosen the 2 securing screws of the upper drum and carefully correct the upper drum position within the screw tolerances. Tighten the securing screws.
- 5) Repeat measurement and adjustment as necessary to where deflection is within 2 microns.

6. Final checks

- 1) Turn the fine adjust knob to separate the test probe from the upper drum, then remove the Microchecker.
- 2) Perform Interchangeability Checks and Adjustments as described in the Service Manual.

Notes:

- 1) PUJ94195 Microchecker Stand
- 2) PUJ96016 Micrometer
- 3) If the PUJ49712-2 Micrometer is available, it can be used with the PUJ94195 Microchecker Stand.

SECTION 3 ELECTRICAL ADJUSTMENTS

3.1 VTR ELECTRICAL ADJUSTMENTS

3.1.1 Precautions

Electrical adjustments are generally necessitated after replacing worn mechanical parts or video heads due to interrelationships among various electrical circuits.

In the event of malfunction, it is important to perform electrical system checks and adjustments methodically with the aid of proper test instruments.

During field service without a complete range of test equipment, avoid unnecessary disturbance of the internal control settings. Refer such repairs and adjustments to an authorized service center, or leave it to do servicing (factory service).

3.1.2 Required test equipment

- 1. Color monitor-TV
- 2. Oscilloscope
- 3. Signal generator (color bar and stairstep)
- 4. Frequency counter
- 5. Audio tester
- 6. Regulated DC power supply
- 7. Digital voltmeter
- Blank video cassette tape (EC-30) for recording and playback checks
- 9. Alignment tape (MH-C2)
- 10. LP mode check tape (CH-C5L)
- 11. Patch cord (PUJ93991B)
- 12. Camera dummy (PUJ94192)
- 13. Test Mode checker (PUJ94194)
- 14. Standard electrical/electronic service tools

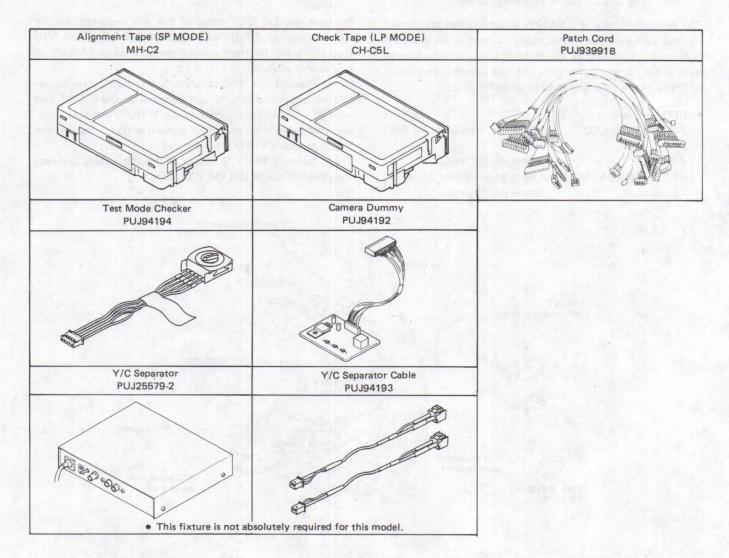


Table 3-1

3.1.3 Camera dummy

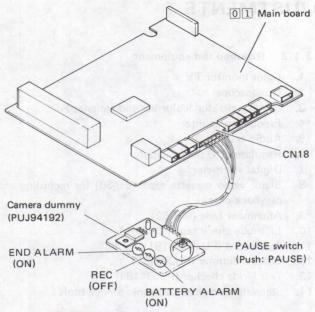


Fig. 3-1-1 Camera dummy connection

The camera dummy (PUJ94192) which is a test equipment for the exclusive use of this model is used when the VTR and camera portions of the VideoMovie are disconnected each other. Before putting to use the dummy, connect it to CN18 of the main board [01] with the cord.

LEDs and switch

END ALARM LED : Lights at tape end in REC

mode.

REC LED : Lights except REC.

BATTERY ALARM LED: Lights when battery power be-

PUAUSE switch

: Pushing this switch with the REC/REC PAUSE switch depressed enters the deck into REC Pause mode.

Note: If the PAUSE switch is not depressed, the PAUSE button of the operation board is ineffective. Therefore, use this dummy with the PAUSE switch depressed except for REC mode.

3.1.4 External video signals (supplied from other implements than GR-C7)

- (1) Since external input terminals are not provided to record an external signal, use the PUJ93991B Patch Cord, which includes the (Y) and (C) video input cables. Supply the video signal directly to Y/C PWB CN1 (Y IN) and CN2 (C IN). Although the E-E (Stop) picture may be disturbed, recording and play-back are not affected.
- (2) Connection of Y/C separator (Used only for E-E level adjustment according to camera input)

Connect the DC OUT cable of the Y/C separator to the deck section of GR-C7 and supply 9.6 V DC to the Y/C separator's DC IN from the AC power adapter (AA-V2 or equivalent) as shown in Fig. 3-1-2.

Next, connect the Y/C separator's attached cables as described below; cable with red terminal to the C OUT and another with white terminal to the Y OUT, and then, connect the cable from the signal generator (color bar) to the Y/C separator's VIDEO IN terminal.

Then, connect the Y/C separator adapter cables between the attached cables and the Y/C board.

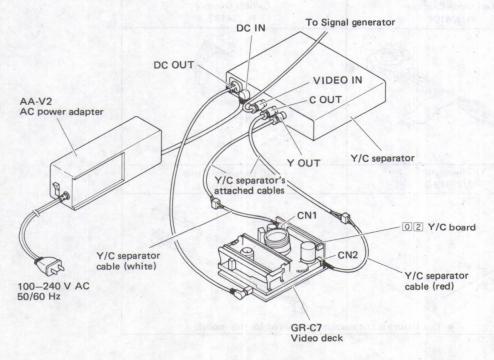


Fig. 3-1-2 Connection of Y/C separator

3.1.5 Location of adjustment parts

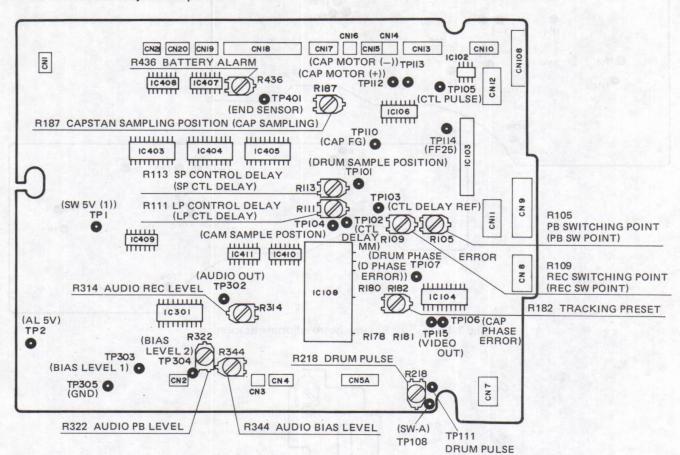


Fig. 3-1-3 0 1 Main board adjustments location

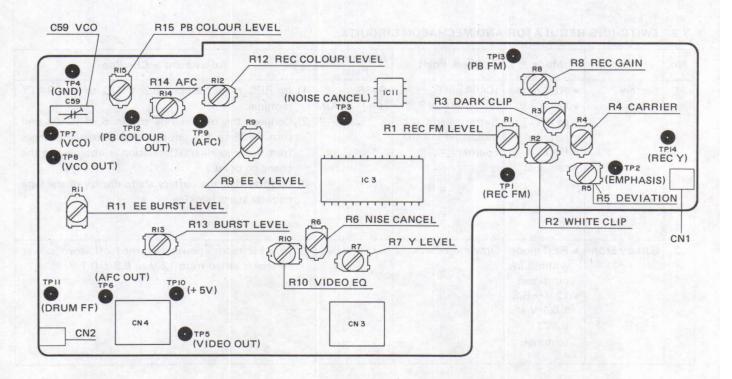


Fig. 3-1-4 0 2 Y/C board adjustments location

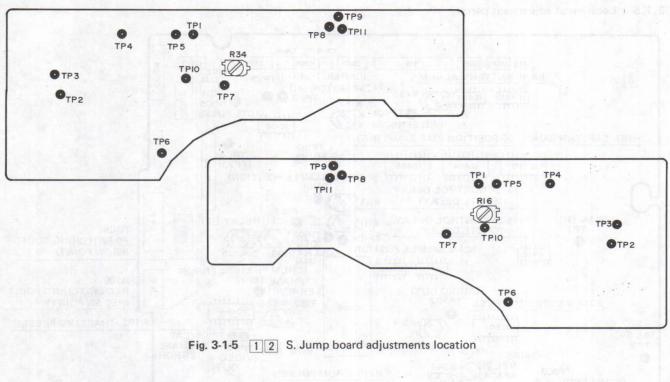




Fig. 3-1-6 SUB board adjustment location

3.2 SWITCHING REGULATOR AND MECHACON CIRCUITS

No.	Item	Mode	Check Point	Adjustment Parts	Adjustment & Checkup
1	Battery Alarm	REC mode DC 9.2 V to BATT terminal BATT terminal	IC404 pin 6 1 MAIN Battery alarm indication in LCD counter.	R436 0 1 MAIN	 In REC mode, supply 9.2 V DC to the BATT terminal. Connect the oscilloscope to pin 6 of IC404 and turn R436 to the position that potential changes from Low to High. (Oscillation is observed at the changing point.) Confirm that the battery alarm display of the tape counter starts blinking.
2	Battery Stop	REC mode without input signal 12 V → 8.8 ± 0.1 V at BATT terminal	Operation check	200	In REC mode, power is turned off when power voltage is varied from 12 V to 8.8 ± 0.1 V.

Note: When not otherwise indicated, perform adjustment in SP mode.

3.3 SERVO CIRCUIT

No.	Item	Mode	Check Point	Adjustment Parts	Adjustment & Checkup
1	Drum Pulse	•REC	TP111 (DRUM PULSE) 0 1 MAIN	R218 0 1 MAIN	1) Connect the oscilloscope tp TP111, and adjust R218 so that pulse (Fig. 3-3-1) becomes 0.6 V ± 0.02 Vp-p.
	com: Lecomes	TOTAL TOTAL	Page 11 - Paudin os de la serie Arte Viantas toto Hillando in al series de la series		0.6 ± 0.2 Vp-p
2	Capstan Sampling Position	Play MH-C2 Stairstep	TP106 (CAP. PHASE ERROR) 0 1 MAIN TP104 (CAP. SAMPLE POSITION) 0 1 MAIN	R187 0 1 MAIN	1) Connect the digital voltmeter to TP106, and adjust R187 to obtain 2.45 V ± 0.1 V. 2) Connect the oscilloscope to TP104, and confirm a stable sampling pulse positioned nearly at the center of the rising slope of the trapezoidal waveform. 40 msec
3		E-E mode LP mode Shortcircuit between TP1 (SW 5 V [1]) & TP103 (CTL DE-LAY REF)	TP102 (CTL DELAY MMV) 0 1 MAIN	R111 0 1 MAIN	Fig. 3-3-2 1) Short TP1 and TP103. 2) Connect the oscilloscpe to TP102, and set for LP mode. 3) In Stop mode, adjust R111 so that (1) (period between the beginning of rising and the peak of the waveform) becomes 30 msec. Fig. 3-3-3
4	SP Control Delay MMV	E-E mode Shortcircuit between TP1 (SW 5 V [1]) TP103 (CTL DE- LAY REF)	TP102 (CTL DELAY MMV) 0 1 MAIN	R113 0 1 MAIN	1) Short TP1 and TP103. 2) Connect the oscilloscope to TP102, and set for SP mode. 3) In Stop mode, adjust R113 so that (a) (period between the beginning of rising and the peak of the waveform) becomes 15 msec. 15 msec ± 0.5 mesc

Note: When not using the Y/C Separator for video circuit adjustment, use the camera video signal.

No.	Item	Mode	Check Point	Adjustment Parts	Adjustment & Checkup
5	PB Switching Point	Play MH-C2 Stairstep (-) trigger Tracking VR at center click position	TP115 (VIDEO OUT) 0 1 MAIN TP11 (FF25) EXT. TRIGGER 0 2 Y/C	R105 0 1 MAIN	 Connect the oscilloscope to TP115 of O MAIN board and trigger it with signal from TP13 in playing back teh MH-C2 tape. Set the oscilloscope to trigger externally with minus (-) slope signal. Adjust R105 so that the trigger point becomes 6.5 H prior to the V. sync.
	se box 30191		The orange of the orange of the orange of the orange of the loss o	ALEN THE	V. sync 6.5 ± 1 H
6	REC Switching Point	Supply ex- ternal video signal (color	TP115 (VIDEO OUT) 0 1 MAIN TP13 (FF25) EXT. TRIGGER 0 1 MAIN	R109 0 1 MAIN	1) With the unit in REC mode, connect the oscilloscope to TP115 and trigger it externally with signal from TP114 of 0 1 MAIN board. 2) Set the oscilloscope for externally triggering with minus (—) slope signal. 3) Adjust R109 so that the trigger point becomes 6.5 ± 1 H prior to the V. sync. V. sync Fig. 3-3-6
7	Tracking Preset	Supply external video signal (color bar) to CN2 of the Y/C PWB. Self REC/PB Tracking VR set at center click position	TP105 (CTL PULSE) 0 1 MAIN TP11 (FF25) EXT. TRIGGER 0 2 Y/C	R182 0 1 MAIN	4) Playback the recorded portion, and confirm that switching point is 6.5 ± 1 H. 1) Connect the oscilloscope to TP105 and TP13 to which it triggers externally, and set the unit to REC mode. 2) Play-back recording of (1). Adjust R182 to align the TP105 waveform rise during Recording with the TP105 positive pulse during Play-back. REC CTL PULSE (SP mode) PB CTL PULSE (SP mode) Fig. 3-3-7 (a)

No.	Item	Mode	Check Point	Adjustment Parts	Adjustment & Checkup
		• LP mode	Ö\n!		3) Perform the same procedure as steps 1) and 2) above in LP mode so that the waveform becomes as shown in Fig. 3-3-7(b).
		herapolaA 13)	auy 85.	žet grus	REC CTL PULSE
		o saubă (130	LADISION	16	(LP mode) ± 2 msec
		arium fati (b)A	03V - 12.4	To tak	PULSE (LP mode)
					Fig. 3-3-7 (b)
		memasibA			
	Je.	LEVE & Adjustin	10400189 JA		
	327	entado A 23 V S	303 03 0	j den	

3.4 Y/C AND PRE-AMPLIFIER CIRCUITS

Notes:

- Be sure to perform the steps 1 through 4 after replacing the heads and/or the pre-amplifier.
 - If the drum assembly is replaced, only the checking procedure of the step 1 (fo/Q adjustment) is needed (adjustment is unnecessary).
- Before proceeding to adjustment of the recording system, make sure to perform E-E level adjustment.
- Perform adjustment of the playback system prior to adjusting carrier and deviation.
- Table 3-4-1 shows standard adjustment sequence. In practice, perform only those steps that become neces-

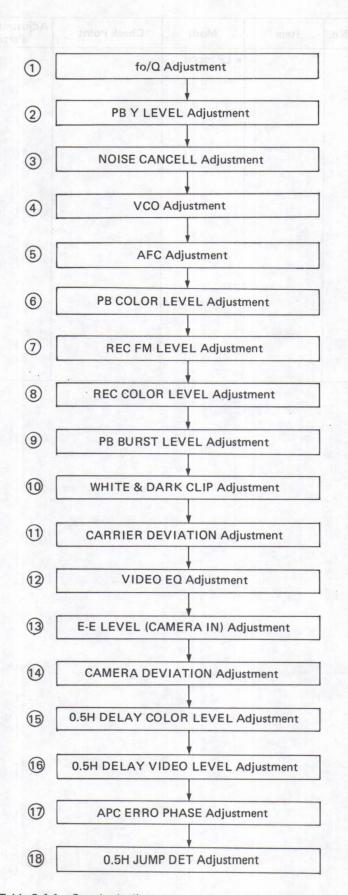


Table 3-4-1 Standard adjustment sequence of the video circuit

[Y/C]

No.	Item	Mode	Check Point	Adjustment Parts	Adjustment & Checkup
1	fo/Q Adj.			f image reversa	I ("tearing") or horizontal jitter occurs during REC/PB replacing the heads or preamp.
	oliolololololololololololololololololol	CH3-Q Pre-amplifier and trigger Pin 4 7 Pin 3 of CN-	TP6 (PB FM) ① 2 Y/C CH4-Q CH1-fo CH2-fo CH2-Q adjustments location 7 in Main Board	CH-1: C2(fo), R2(Q) CH-2: C4(fo), R4(Q) CH-3: C1(fo), R1(Q) CH-4: C3(fo), R3(Q) 0 3 PRE AMP	2) Adjust C2 (CH-1 fo) to set the resonance point to 4.2 MHz.3) At this time, make a note of the 4.2 MHz and
2	PB Y Level	Play MH-C2 Color bar	TP5 (VIDEO OUT) 0 2 Y/C	R7 02 Y/C	1) Connect the oscilloscope to TP5. Adjust R7 so that Y level at TP5 becomes 2 V ± 0.1 Vp-p.
		Fig. 3-4.7			Fig. 3-4-3
3	Noise Cancel	• Play MH-C2 • Color bar	TP3 (NOISE CANCEL) 0 2 Y/C	R6 (NOISE CANCEL) 0 2 Y/C	1) Observing the oscilloscope connected to TP3, adjust R6 to minimize the noise level. Fig. 3-4-4
	VCO Adj. (4.43 MHz)	Play MH-C2 Color bar	TP8 (VCO)	C59 0 2 Y/C	Connect a 30-kohm resistor between TP4 (GND) and TP7 of the Y/C board.

No.	Item	Mode	Check Point	Adjustment Parts	Adjustment & Checkup
5 sault	AFC TP10 ←	Play MH-C2 Color bar 2.5 V DC to TP10 2.2 K	TP6 (5.15 MHz) 0 2 Y/C	R14 0 2 Y/C	 Supply regulated 2.5 V DC to TP10 (or connect the test instrument shown in Fig. 3-4-5 to TP4, TP9 and TP10). Connect the frequency counter to TP6. Adjust R14 to obtain 5.15 MHz ± 100 kHz frequency at TP6.
			TP9 Fig. 3-4-5	OVER HAS	
6	PB Color Level	• Play MH-C2 • Color bar	TP12 (PB COLOR) 0 2 Y/C	R15 0 2 Y/C	Connect the oscilloscope to TP12 and adjust R15 so that the maximum signal level becomes 0.2 Vp-p. (At this time, observe waveforms of CH-1 through CH4 respectively.)
		4 S 4 2 %	avior manials is schemic s lieud by	mil .	0.2 V ± 0.05 Vp-p
	PHO DO THAT OF THAT OF	at (2) sportd led ty Libs (2) lehns.	Subdiscou	trouscewitten	₩₩ [*] Fig. 3-4-6
7	REC FM Level	(color bar) to PWB. • SP mode	ernal video signal to CN2 of the Y/C HEAD TERMINAL (Orange wire) 0 4 PRE AMP	R1 0 2 Y/C	1) Connect the oscilloscope to the Head terminal and adjust R1 so that the level (a) becomes 1.5 Vp-p. 1.5 V ± 0.1 Vp-p. Fig. 3-4-7
8	REC Color Level		to CN2 of the Y/C TP12 (PB COLOR) 0 2 Y/C	R12 0 2 Y/C	1) Connect the oscilloscope to TP12. 2) In recording, adjust R12 so that the largest level among CH-1 through CH-4 is 0.15 Vp-p. 0.15 V + 0.025 Vp-p
		1000	one un or each		Fig. 3-4-8

No.	Item	Mode	Check Point	Adjustment Parts	Adjustment & Checkup
9	PB Burst Level		ernal video signal co CN2 of the Y/C	R13 0 2 Y/C	Connect the oscilloscope to TP5. Adjust R13 so that burst level at TP5 is 0.6 Vp-p.
	eval califi for	• Self REC & PB	TP5 (VIDEO OUT) 0 2 Y/C		0.6 V ± 0.06 Vp-p
	gwaio di Vini				Fig. 3-4-9
10	White & Dark Clip		ernal video signal to CN2 of the Y/C TP2 (EMPHASIS) 0 2 Y/C	R2 (WHITE CLIP) R3 (DARK CLIP) 0 2 Y/C	1) Observing the oscilloscope connected to TP2, adjust R2 and R3 so that white clip becomes 90% and dark clip becomes 50%, respectively.
	E of entoend	ce square l'Isa		Gratis Digiti	ice manuals schema's 100% (a) 50 ± 5%
	PAN EN		www.fr	ceservicema	nuals.info Fig. 3-4-10
11	Carrier Deviation	REC mode No input signal	TP1 (REC FM) 0 2 Y/C	R4 (CARRIER) 02 Y/C R5 (DEVI- ATION) 02 Y/C	 In recording whithout input signal, adjust R4 so that frequency at TP1 (counter display) becomes 3.8 MHz ± 50 kHz. Record and play back the color bar signal. Connect the oscilloscope to TP5. During recording, adjust R5 so that the Y level becomes 2 V ± 0.1 Vp-p during playback.
12	VIDEO EQ Adj.		ernal video signal p) to CN2 of the TP5 (VIDEO OUT) 0 2 Y/C	R10 0 2 Y/C	 Connect a 100 μF capacitor between TP4 (GND) and R13 the Y/C board to make a shortcircait shown in Fig. 3-4-11. Set markers of the color sweep generator to 2 MHz and 100 kHz. Record and Play-back a color sweep signal in the LP mode. Adjust R10 so that the 2 MHz level is more than -8 dB relative to 100 kHz.
	TP4 (GND)	100 µF -∦+	R1	3 Y/C PWB	a b
					$LP: \frac{b}{a} = -8dB$
		Fig. :	3-4-11		Fig. 3-4-12

[Camera]

No.	Item	Mode	Check Point	Adjustment Parts	Adjustment & Checkup
13	E-E Level (Camera IN)	(color bar) PWB. • E-E mode	ernal video signal to CN2 of the Y/C TP5 (VIDEO OUT) 0 2 Y/C	R9 R11 0 2 Y/C	1) Connect the oscilloscope to TP5. 2) Adjust R9 so that Y level at TP5 becomes 2.0 Vp-p. 3) Adjust R11 to obtain 0.6 Vp-p of burst level at TP5. Fig. 3-4-13
	Camera Deviation	• Supply ext (color bar) PWB. • E-E mode	0 2 Y/C	R8 [02 Y/C stimi) Extend the memory ross.	1) Observing the oscilloscope connected to TP14 adjust R8 so that Y level becomes 0.3 Vp-p. Fig. 3-4-14

S JUMP

5. J	JMP]		AND THE RESERVE OF THE PERSON	A SECTION	
15	0.5H Delay Color level		TP1 (0.5H Delay 1 2 S. JUMP	R10 1 2 S. JUMP	 Record and play-back color bar signal (SP mode). Connect oscilloscope to TP1 of the S-JUMP PWB and make a note of level (A). Short TP2 and TP3 to ground. Again observe the level (B) at TP1. Adjust R10 so that levels A and B are equal.
16	0.5 H Delay Video level	• PLAY CH-C5L • Color bar	TP5 0 2 Y/C	R34 1 2 S. JUMP	1) Connect oscilloscope to TP5 of the Y/C PWB in playing back the CH-C5L tape. 2) Adjust R34 of the S-JUMP PWB to obtain the waveform illustrated in Fig. 3-4-15. Fig. 3-4-15

No.	Item	Mode	Check Point	Adjustment Parts	Adjustment & Checkup
17	APC Error Phase		ernal video signal to CN2 of the Y/C TP10 TP6 1 2 S. JUMP	L1 12 S. JUMP	1) Connect dual trace oscilloscope to TP10 and TP6. Adjust the core of L1 to obtain the burst phase (A) and 7.8 kHz waveform phase (B) indicated in the figure, $t=30~\mu\pm3~\mu sec$.
					Fig. 3-4-16
18	0.5 H Jump Det	E-E mode No input signal	TP4 (0.5 H JUMP DET) 1 2 S. JUMP	R16 1 2 S. JUMP	 Supply regulated 2.5 V DC to TP5 (or connect the test instrument shown in Fig. 3-4-17 to TP8, TP9 and TP5). Connect the frequency counter to TP4. Adjust R16 to obtain 30 kHz ± 0.2 kHz frequency at TP4.
					TP 5 Fig. 3-4-17

Note: Confirm that the playback mode is fulfilled with CH-C5L after campleting all adjustments.

3.5 AUDIO CIRCUIT

No.	Item	Mode	Check Point	Adjustment Parts	Adjustment & Checkup
1	PB Level	• Play MH-C2 • Color Bar (1 kHz). • PB mode	TP302 (AUDIO OUT) 0 1 MAIN	R322 0 1 MAIN	1) Connect the audio tester to TP302, and play the alignment tape MH-C2 (1 kHz). In the PB mode, adjust R322 to obtain -6 dBs (1.1 Vp-p) ± 0.5 dBs.
2	Audio Bias Level	REC mode No audio signal input	TP304 (BIAS LEVEL-2) TP303 (BIAS LEVEL-1)	R344 0 1 MAIN	 Connect the audio tester's HOT side to TP303 and GND to TP304. Adjust R344 so that bias level becomes 2.2 mV ± 0.2 mVrms.
3	REC Level	•SP mode •1 kHz, -8 dBs input •Self REC & PB	TP302 (AUDIO OUT) 0 1 MAIN	R314 0 1 MAIN	Druing Recording, adjust R314 so that the TP302 value is -6 ± 1 dBs during Play-back.

3-14

3.6 CAMERA ADJUSTMENT

3.6.1 Required tools and equipment for camera adjustment

Grey scale pattern (GS-2A) Reflection type, 11 steps, $\gamma = 2.2$	Color bar pattern (CC-2A) Reflection type, 7 colors	Patch cord (PUJ93991)
Back focus adjustment driver (PUJ37186A)	AF (auto-focus) unit, Back focus adjustment driver (PUJ37186B)	AF (auto-focus) unit, Back focus adjustment chart (PUJ93944)
Color temperature conversion filter (PUJ53340A - C2, C4, C8)	Neutral density filter (PUJ53341A - ND2, ND4, ND8)	Color compensating filter - CC10Y (CC10Y filter made by Kodak)
		This filter is CC10Y in Kodak.

3.6.2 Other tools and instruments necessary for adjust-

- Halogen lamps (3 200 K each)
- 9.6 V DC supply (AA-V2 or equivalent)
- Skin tone test pattern (of clear color phase)

3.6.3 Other measuring instruments

- Oscilloscope
- Vectorscope
- Color video monitor
- Digital voltmeter
- Lux meter
- Color temperature meter

Standard setting and connection

Separate the camera and deck portions each other, and connect them with patch cords.

For adjusting VRs of the E-E & IND board, pull the VIDEO, E-E & IND, and REG boards to this side prior to adjustments. At this time, pay careful attention to flexible wires not to damage them.

For adjusting VRs of the VIDEO board, there needs no pulling the board.

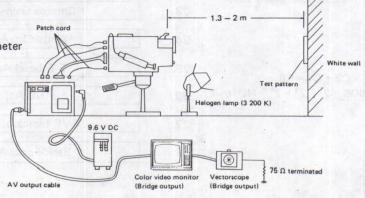


Fig. 3-6-1

3.7 PREPARATION AND PRELIMINARY CHECKS BEFORE CAMERA ADJUSTMENTS

3.7.1 Notice before adjustment

Electrical adjustments described in this article are generally needed in case of electrical parts replacement.

When it seems that there is any trouble in electric circuits, find the faulty by measuring instruments first, and then repair or replace the parts if necessary. Adjustments should be done only after completion of such checking. Don't turn control VRs without confirming the reason of the fault.

The following adjustment items and steps are for general servicing, therefore, perform only the necessary items in practice.

3.7.2 Preparation and check points

1. Test pattern illumination

Proper illumination of the test pattern is essential for performing correct adjustment.

Use 3200° K lights and set them to illuminate the test pattern evenly at approximately 4,000 Lux. (It is recommended to use two or more lamps.)

- 2. Test pattern
 - Use the new and clean test patterns.
- 3. This model adopts the fully automatic color temperature sensing system. Any adjustment such as white balance adjustment relating to the system is remarkably effected by ray and light applied to the color sensor. Therefore, such adjustment must be done with the color sensor set to the enclosure. Pay careful attention to other lights (fluorescent light, etc.) than the proper pattern illumination.
- It needs not to adjust VRs of the Imager board (1) and (2).
- When not otherwise indicated, perform adjustment in the manual focus and indoor mode.
- Although the adjustment method assumes that a vectorscope is not available, perform adjustment as finely as possible.
- 7. Light amount should be reduced by ND filters. However, if the level cannot be obtained, adjust R61 (IRIS) of the 24 EE & IND board.
- 8. If TP1 level cannot be obtained by ND filters, adjust R61 (IRIS) of the 2 4 EE & IND board.

Add digit after the hyphens to indicate combined filter value.

Examples:

PUJ53340A-<u>C2</u> + PUJ53340A-<u>C4</u> = C2 + C4 = C6 PUJ53341A-ND2 + PUJ53341A-ND8 = 2¹ + 2³ = 2⁴ = ND16

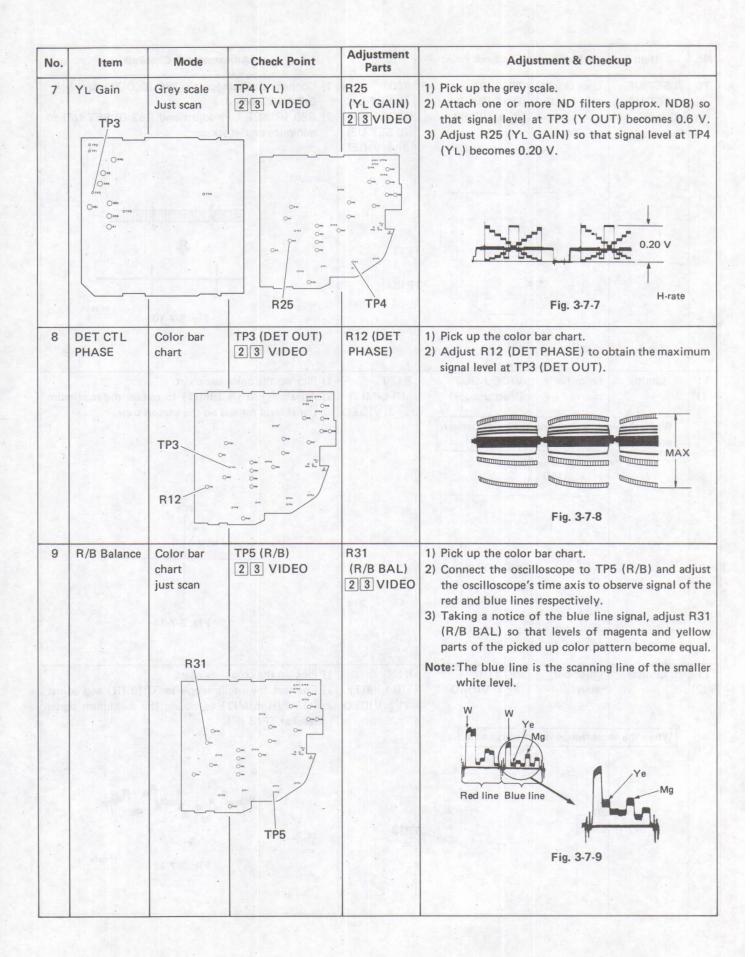
3.7.3 Camera adjustment procedure

The following are the whole steps to adjust all VRs of the camera section in the order of adjustments. Consequently, here are some steps unnecessary for practical adjustments and repairs. Perform only the necessary items in practice.

1.	8 V Adj.
2.	Yн Setup Adj.
3.	Yн Gain Adj.
4.	E-E Level Adj.
5.	V. Edge Balance Adj.
	YL Setup Adj.
6.	
7.	YL Gain Adj.
8.	D.E.T CLT PHASE Adj.
9.	R/B Balance Adj.
10.	R SET UP, B SET UP Adj.
11.	R. Limiter Adj.
12.	S.C. Phase Adj.
13.	Color Difference Balance Adj.
14.	Noise Suppressor Balance Adj.
14.	Troise Suppressor Bulline Auj.
15.	Carrier Balance Adj.
16.	B-Y GAIN Adj.
17.	Color Sensor Adj.
18.	White Balance (1) Adj.
19.	White Balance (2) Adj.
20.	White Balance (3) Adj.
21.	Burst Phase Adj.
22.	Burst Gain Adj.
23.	Chroma Gain Adj.
20.	
24.	White Clip Adj.
25.	E-E Level Adj.
26.	AGC Adj.
27.	EVF Indicator Adj.
28.	Back Focus Adj.

No.	Item	Mode	Check Point	Adjustment Parts	Adjustment & Checkup
1	8 V Adj.	Lens closed	CN-E5 pin 3 (SW 8 V (1)) 2 4 EE & IND	R6 (8 V Adj) 2 8 REG	 Connect the digital voltmeter between CN-E5 pin 3 and GND. Adjust R6 (8 V Adj) so that level at CN-E5 pin 3 becomes 8.0 ± 0.1 V.
2	YH Setup	Lens closed AGC OFF	TP3 (Y OUT) 2 4 E-E & IND	R64 (YH SETUP)	1) Short TP15 (AGC-OFF) and TP17 (GND). 2) With the lens capped, observe H-rate waveform at TP3 (Y OUT). 3) Adjust R64 (YH SETUP) to obtain 40 mV of the SETUP level. 4) Remove the TP Short wire.
4100 4100 4100 4100 4100 4100 4100 4100	0 1971 0 1971 0 1981 0 1980 0 1980 0 1990 0 1990 0 1991	0174	One	on one one one one one one one one one o	H-rate Fig. 3-7-1 Note: If level is insufficient even when R64 (YH SET UP) is adjusted, adjust R50 (YH SET UP) of the 2 3 VIDEO board, R8 (WHITE CLIP)
3	YH GAin	Grey scale Just scan AGC OFF	TP1 (S/H OUT)	R50 (YH GAIN) 2 3 VIDEO	of the 2 4 E-E & IND BOARD and R61 (IRIS). 1) Short TP15 (AGC-OFF) and TP17 (GND). 2) Pick up the grey scale. 3) Adjust R61 (IRIS) so that signal level at TP1 (S/H
	Recommendation of the second s	0+ 0+ 0+ 0+	R50	ZSVIDEO	OUT) becomes 0.2 V. Out of the second of th
hets best	ur biniy fon gibi yhyafiya ta, prisik arasi	TP15	TP1		 Note: Connect a 10 kΩ (or more) resistor between TP1 (S/H OUT) and the oscilloscope. 4) In the above state, adjust R50 (YH GAIN) so that signal level at TP3 (Y OUT) becomes 0.7 V.
	TP3 \	0179 0179 0190 0100 0100 0100 0100 0100	01M		The second of th

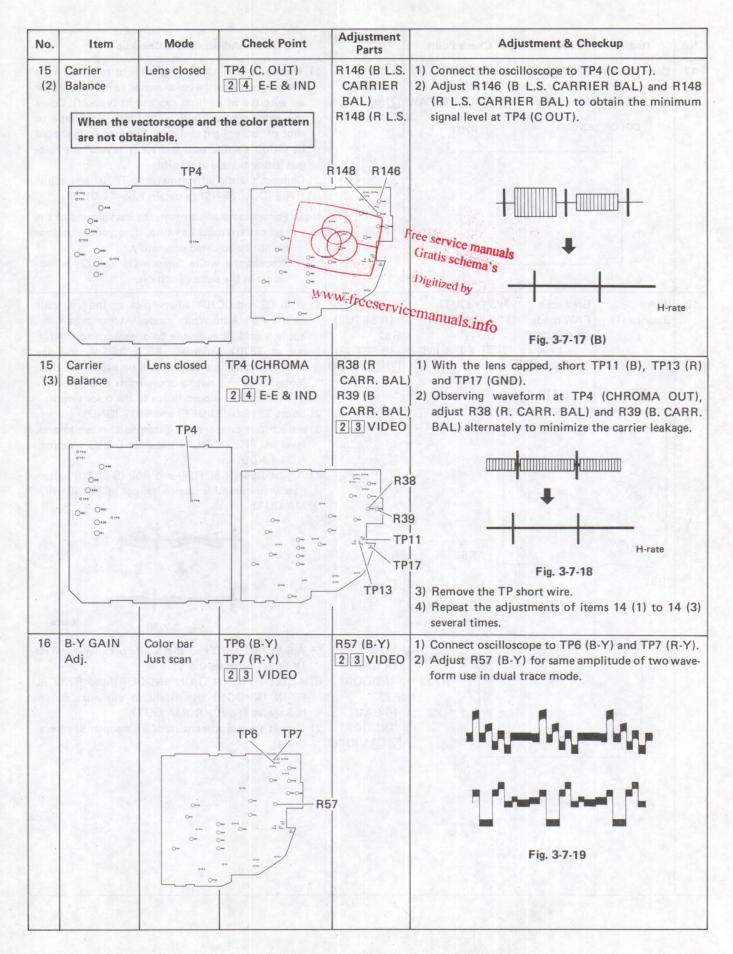
No.	Item	Mode	Check Point	Adjustment Parts	Adjustment & Checkup
4	TP3-	Grey scale Just scan	TP3 (Y OUT) 2 4 E-E & IND	R61 (IRIS) 2 4 E-E & IND	1) Pick up the grey scale by just scanning. (Precisely adjust the picture angle to set the grey scale's outer frame for the frame of image period.) 2) Observing waveform at TP3 (Y OUT), adjust R61 (IRIS) so that signal level of white peak becomes 0.76 V. V-rate Fig. 3-7-4 Note: If above level is not obtained by adjusting R61 (IRIS), adjust R8 (WHITE CLIP) of the 2 4 E-E & IND BOARD.
5	V. Edge Balance	Grey scale Just scan	TP8 (V. EDGE) 2 3 VIDEO TP8 TP8 R65	R65 (V. EDGE VAL) 2 3 VIDEO	 Pick up the grey scale. Connect the oscilloscope to TP8 (V. EDGE) and observe the waveform at V-rate. Adjust R65 (V. EDGE VAL) so that average level of the waveform becomes zero. Fig. 3-7-5 Before proceeding with color adjustments, observe the display of a color test pattern. If generally normal colors are not obtained, perform the following adjustments. Also, the adjustments below are required if hue deviates in dark locations. YL Set Up (No. 6), YL Gain (No. 7), R/B Balance (No. 9), R Limiter (No. 11), B-Y Gain (No. 16), and Chroma Gain (No. 23). However, these adjustments will not yield normal color if the encoder system is not properly adjusted. Therefore, encoder system adjustments are required.
6	YL Set up	R63	TP10 (YL) 2 3 VIDEO TP10 One	R63 (YL SETUP) 23VIDEO	1) Cap the lens. 2) Observing waveform at TP10 (YL), adjust R63 (YL SETUP) to obatin 40 mV of the signal waveform. 40 mV Fig. 3-7-6 H-rate

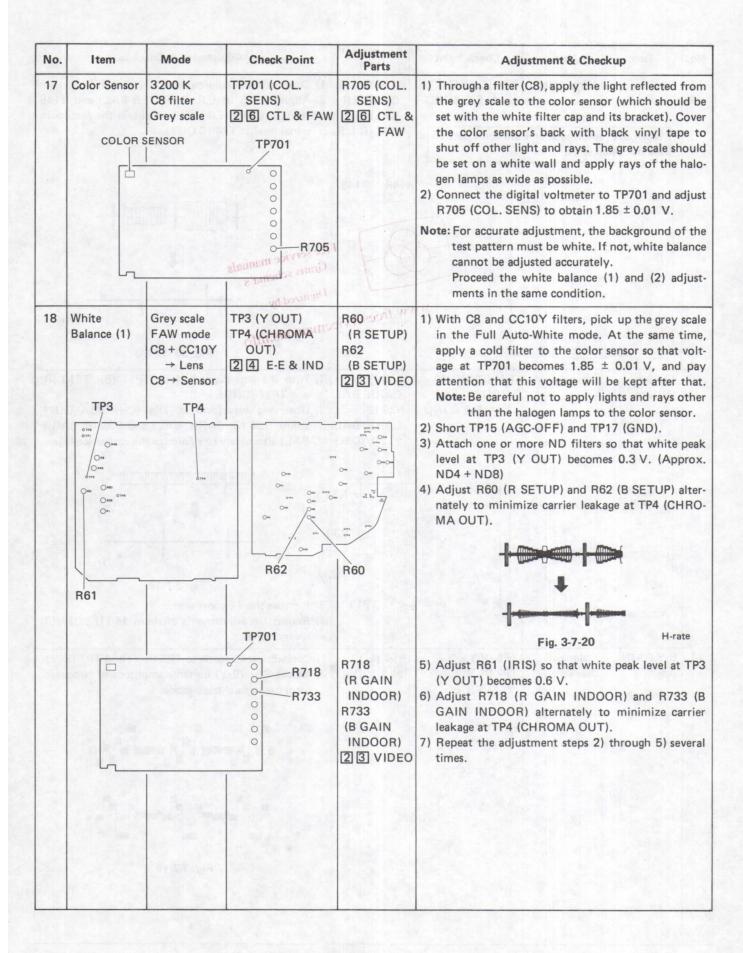


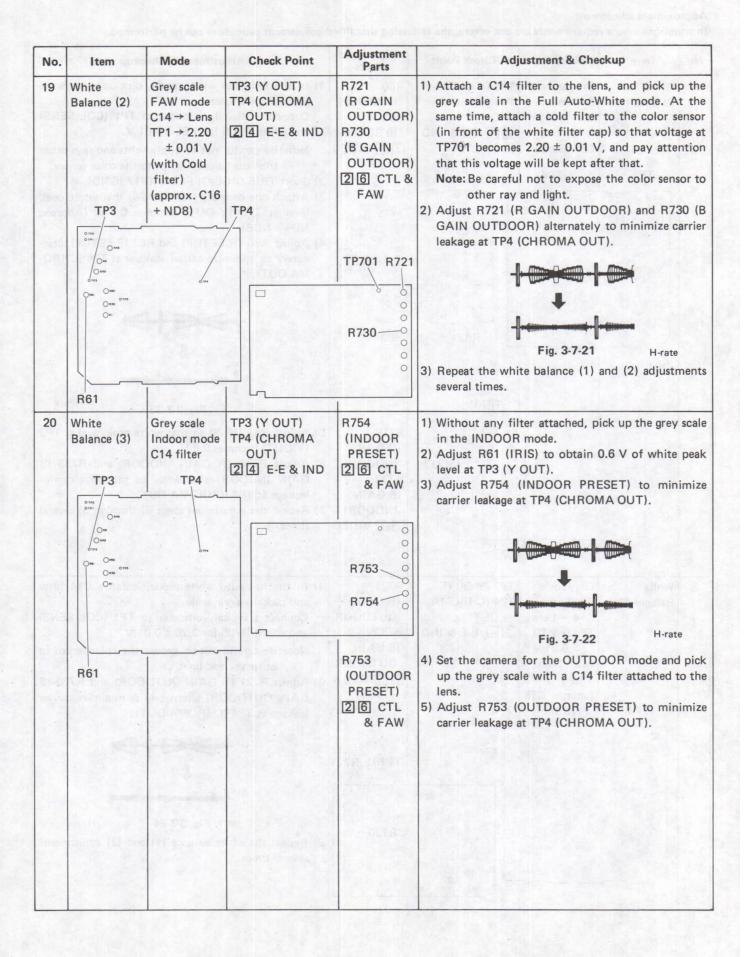
No.	Item	Mode	Check Point	Adjustment Parts	Adjustment & Checkup
10	R SET UP B SET UP (Coarse)	Lens closed	TP11 (B) TP13 (R) 2 3 VIDEO	R60 (R SET UP) R62 (B SET UP) 2 3 VIDEO	1) Connect oscilloscope to TP4 (C OUT) on 2 4 E-E & IND board. 2) R60 (R SET UP) adjust and R62 (B SET UP) to minimize carrier lekage.
		0-0-0 0-10 0-10 0-10 0-10 PR62	001 001 001 001 001 001 001 001 001 001	TP11	Fig. 3-7-10
11 (1)	R. Limiter When the ware used.	Color bar chart rectorscope and	VIDEO OUT (Vectorscope) the color pattern	R130 (R LIMIT) 23 VIDEO	1) Pick up the color bar chart. 2) Adjust R130 (R LIMIT) to obtain the maximum signal level for red on the vectorscope. R-Y Maximum red level B-Y
11 (2)	R. Limiter	Color bar	TP13 (R) 2 3 VIDEO	R130	Fig. 3-7-11 1) Pick up the color bar chart. 2) Connect the oscilloscene to TP13 (P) and editest
(2)	When the vectorscope is not obtainable.			(R LIMIT) 23 VIDEO	2) Connect the oscilloscope to TP13 (R) and adjust R130 (R LIMIT) to obtain the maximum signal level at TP13 (R).

No.	Item	Mode	Check Point	Adjustment Parts	Adjustment & Checkup
12 (1)	S.C. Phase	Color bar chart	VIDEO OUT (Vector scope)	R49 (S. C. PHASE) 2 4 E-E & IND	Pickup a colour bar chart. While observing with a vectorscope, adjust R49 (SC PHASE) to overlap Red end (A).
	When the v	When the vectorscope and the color pattern			side nuttice for all legs percency and rold W
	R49 -	0 TP2 0 TP7 0 Met	0174		B-Y Fig. 3-7-13
12 (2)	S.C. Phase	Lens closed	TP4 (C. OUT) 2 4 E-E & IND	R49 (S.C. PHASE) 2 4 E-E & IND	Connect oscilloscope to TP4 (C OUT). Use the H-rate and burst sweep. Adjust R49 (SC PHASE) for clearest edges.
	When the vectorscope and the color pattern are not obtainable.				
	R49-	01792 0177- 0180 0183 0183 0183 0185 0185	don	TP4	
une T	niantal Anticle	1000	inc rato it stor.		Fig. 3-7-14
13 (1)	Color Difference Balance	Color bar chart	VIDEO OUT (Vectorscope)	R40 (COL. DIFF. BAL 2 3 VIDEO	Pick up the color bar chart. Adjust R40 so that swaying of red line becomes minimum on the vectorscope.
-de s	When the vare used.	rectorscope and	the color pattern	\$ 19 30 CH p	Constant of the second state of the second state of the second se
		One	000 000 000 000 000 000 000 000 000 00	40	Minimum swaying R-Y
		Out	One over 0 00 00 00 00 00 00 00 00 00 00 00 00		Fig. 3-7-15 (A)

No.	Item	Mode	Check Point	Adjustment Parts	Adjustment & Checkup
13 (2)	Color Difference Balance	Color bar TP7 (B-Y) 2 3 VIDEO e vectorscope is not obtainable		R40 (COL. DIFF. BAL) 23 VIDEO	 Observe the monitor display and adjust so that red and blue fill large portions of the picture area. Connect oscilloscope to TP7 (B-Y) and observe at V-rate with center sweep. Adjust R40 (COL DIF BAL) so that the waveform is the same every other horizontal line.
		One One One One One	TP7	40	Fig. 3-7-15 (B)
14	Noise Suppressor Balance	Color bar chart	TP12 (COLOR NOISE) 2 3 VIDEO R42 TP12	R42 (NOISE SUP.) 23 VIDEO	1) Pick up the color bar chart. 2) Adjust R42 (NOISE SUP) so that waveform at TP12 (COLOR NOISE) is most balanced as shown in the figure. Fig. 3-7-16 Note: If the Color Difference Balance adjustment (9-[1], 9-[2]) has been poorly performed, satisfactory result cannot be obtained in this adjustment. (When the previous adjustment was performed in the way of 9(2), alternately repeat these two adjustments several times.
15 (1)		Vectorscope and	VIDEO OUT (Vectorscope) d the color pattern R146 R148	R146 (B L.S. CARRIER BAL) R148 (R L.S. CARRIER BAL) 2 3 VIDEO	1) Adjust R146 (B. L. S. CARRIER BAL) and R148 (R L.S. CARRIER BAL) so that the distance between the dots becomes minimum on the vector-scope. R-Y Minimum distance between dots. Fig. 3-7-17 (A)







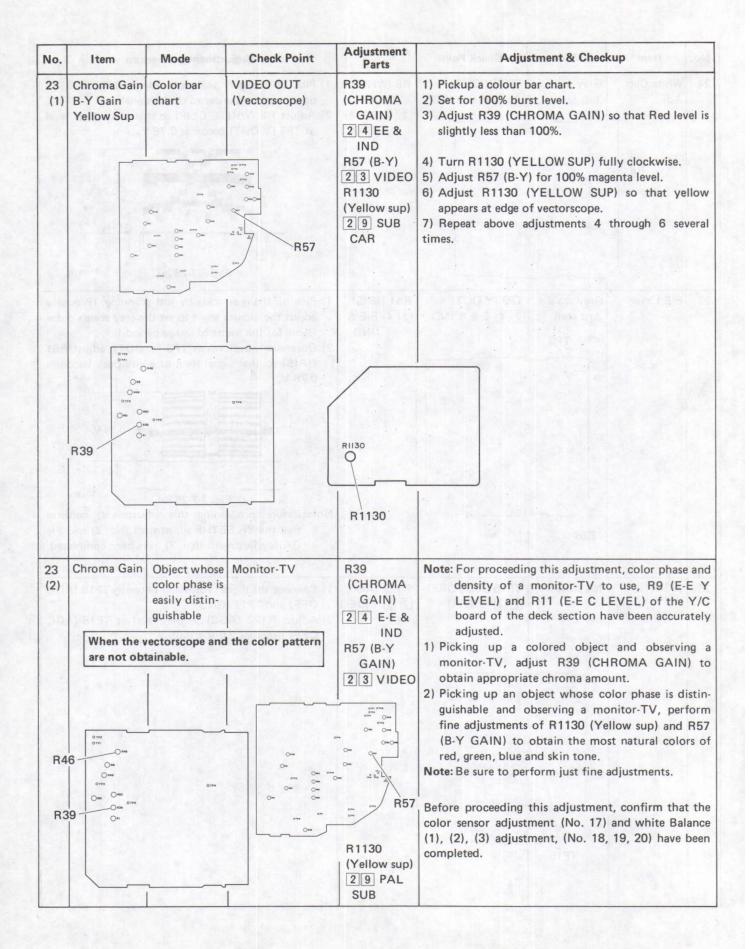
Approximate adjustment

In situations where requirements are not severe, the following simplified adjustment procedure can be performed.

B White Balance	TP3	Grey scale FAW mode C8 + CC10Y → Lens C8 → Sensor TP4	TP3 (Y OUT) TP4 (CHROMA OUT) ② ④ E-E & IND	R60 (R SETUP) R62 (B SETUP) 2 3 VIDEO	1) In the full atuo white mode, pick-up a greyscale through a C8 filter. Connect a digital voltmeter to TP1 (COL SENS) and adjust R705 for 1.85 ± 0.01 V. Note: Be careful not to apply lights and rays other than the halogen lamps to the color sensor. 2) Short TP15 (AGC-OFF) and TP17 (GND). 3) Attach one or more ND filters so that white peak
Balance		A enance or tall and a popular or tall and a	R62 TP701 R718 R733	R60 R718 (R GAIN INDOOR) R733 (B GAIN INDOOR) 2 3 VIDEO	level at TP3 (Y OUT) becomes 0.3 V. (Approx. ND4 + ND8) 4) Adjust R60 (R SETUP) and R62 (B SETUP) alternately to minimize carrier leakage at TP4 (CHROMA OUT). Fig. 3-7-23 H-rate 5) Adjust R61 (IRIS) so that white peak level at TP3 (Y OUT) becomes 0.6 V. 6) Adjust R718 (R GAIN INDOOR) and R733 (B GAIN INDOOR) alternately to minimize carrier leakage at TP4 (CHROMA OUT). 7) Repeat the adjustment steps 2) through 5) several times.
	TP3	Grey scale FAW mode C14 → Lens TP1 → 2.20 ± 0.01 V (with Cold filter) (approx. C16 + ND8)	TP3 (Y OUT) TP4 (CHROMA OUT) 2 4 E-E & IND	R721 (R GAIN OUTDOOR) R730 (B GAIN OUTDOOR) [2] 6 CTL & FAW TP701 R721	and adjust R705 for 2.20 ± 0.01 V. Note: Be careful not to expose the color sensor to other ray and light.

No.	Item	Mode	Check Point	Adjustment Parts	Adjustment & Checkup
С	COLOR S	3200 K C8 filter Grey scale	TP701 (COL. SENS) [2] [6] CTL & FAW TP701	R705 (COL. SENS) 26 CTL& FAW	 Through a filter (C8), apply the light reflected from the grey scale to the color sensor (which should be set with the white filter cap and its bracket). Cover the color sensor's back with black vinyl tape to shut off other light and rays. The grey scale should be set on a white wall and apply rays of the halogen lamps as wide as possible. Connect the digital voltmeter to TP701 and adjust R705 (COL. SENS) to obtain 1.85 ± 0.01 V. Note: For accurate adjustment, the background of the test pattern must be white. If not, white balance cannot be adjusted accurately. Proceed the white balance (1) and (2) adjustments in the same condition.
gwys	ele Bry (TUC)	MAPT of pilot	edimic Year nou (f) wate toud self to Be that mount (s)	615 182449 9.1 8-8 18339	ATRUMON OF THE MAN AND THE STATE OF THE STAT
D	White Balance (3)	Grey scale Indoor mode C14 filter TP4	TP3 (Y OUT) TP4 (CHROMA OUT) 2 4 E-E & IND	R754 (INDOOR PRESET) [2] 6] CTL & FAW	1) Without any filter attached, pick up the grey scale in the INDOOR mode. 2) Adjust R61 (IRIS) to obtain 0.6 V of white peak level at TP3 (Y OUT). 3) Adjust R754 (INDOOR PRESET) to minimize carrier leakage at TP4 (CHROMA OUT). Fig. 3-7-25
	R61			R753 (OUTDOOR PRESET) [2] 6] CTL & FAW	4) Set the camera for the OUTDOOR mode and pick up the grey scale with a C14 filter attached to the lens. 5) Adjust R753 (OUTDOOR PRESET) to minimize carrier leakage at TP4 (CHROMA OUT).

No.	Item	Mode	Check Point	Adjustment Parts	Adjustment & Checkup
21 (1)	Burst Phase Color bar VIDEO OUT (Vectorscope)		R46 (B PHASE) [2] [4] E-E &	1) Adjust R46 (B PHASE) so that burst phase angle becomes 90° as shown in the figure below.	
	When the are used.	When the vectorscope and the color pattern are used.			R-Y
	R46	0192 0191 0191 0192 0193 0193 0193 0194 0195 0195 0195 0195 0195 0195 0195 0195	Street St		90° B-Y
21 (2)	Burst Phase	Lens	TP4 (C OUT) 2 4 E-E & IND	R46 (B. PHASE) 2 4 E-E &	1) Connect oscilloscope to TP4 (C OUT) and observe the burst signal. 2) Adjust R46 (B PHASE) for minimum burst signal.
	When the		d the color pattern	IND	
	R46	0172 0171 018 019 019 019 019 0175	TP4	CHICAGO CHICAG	ORI SERVICE STATE OF THE PROPERTY OF THE PROPE
'22	Burst Gain	○ R46 ○ R46 ○ R45 P3	TP4 (CHROMA OUT) 2 4 E-E & IND TP4	R50 (BURST GAIN) 2 4 E-E & IND	1) Adjust R50 (BURST GAIN) so that color burst signal level at TP4 (CHROMA OUT) becomes 0.2 Vp-p. Fig. 3-7-27 H-rate



No.	Item	Mode	Check Point	Adjustment Parts	Adjustment & Checkup
24		Grey scale Just scan	TP3 (Y OUT) 2 4 E-E & IND	R8 (WHITE CLIP) 24 E-E & IND	1) Pick up the grey scale and adjust R61 (IRIS) to open the iris in order to choke signals. 2) Adjust R8 (WHITE CLIP) so that white peak level at TP3 (Y OUT) becomes 0.78 V. 6.78 V. Fig. 3-7-28 (a) H-rate
25	E-E Level	Grey scale Just scan TP3 OTPS OTP	TP3 (Y OUT) 2 4 E-E & IND	R61 (IRIS) 24 E-E & IND	1) Pick up the grey scale by just scanning. (Precisely adjust the picture angle to set the grey scale's outer frame for the frame of image period.) 2) Observing waveform at TP3 (Y OUT), adjust R61 (IRIS) so that signal level of white peak becomes 0.76 V. Fig. 3-7-28 (b) V-rate Note: Before proceeding this adjustment, confirm that the YH SETUP adjustment (No. 2) and YH GAIN adjustment (No. 3) have been completed.
26	AGC	Iris closed	TP15 (AGC OFF) 2 3 VIDEO One	R122 (AGC) 2 3 VIDEO	1) Connect the digital voltmeter between TP15 (AGC OFF) and TP17 (GND). 2) Adjust R122 (AGC) so that level at TP15 (AGC OFF) becomes 2.0 V ± 0.05 V.

No.	Item	Mode	Check Point	Adjustment Parts	Adjustment & Checkup
27	Tar source of	Lens closed	Electronic Viewfinder	R1 (IND OSC) 2 4 E-E & IND	1) Adjust R1 (IND OSC) so that the indicator inside the electronic viewfinder is positioned at the center. H/2 H/2 H/2 Fig. 3-7-29
28	Back Focus Adj.	Object far apart 100 m or more Isis opened (w/ND filter)	VIDEO OUT (Monitor picture)	Master Lens	 Shoot an object as much as 100 m (or far ahead) with the lens set to the wide-angle position (9 mm). Attach an ND filter to the lens and open the iris. (Confirm that "LIGHT" indication appears on the electronic viewfinder's screen. Set the focus ring to the infinity (∞). Loosen the screw (25), and adjust the position of the master lens (A) with the back focus adjustment driver, and then, bring the object into focus viewing the monitor's picture. After the above adjustment, tighten the screw (25) and check up the focus again.

3.7.4 Electronic viewfinder (EVF) adjustment

Caution: High voltage appears at the CRT anode, HV module, etc.

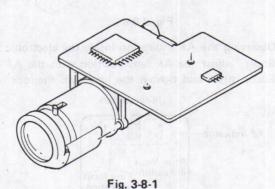
No.	Item	Mode	Check Point	Adjustment Parts	Adjustment & Checkup
1 and a series of the series o	Horizontal Sync.		CENTER MAGNET	VR4 (H. HOLD) 30 VF (1)	
2	Vertical Scanning	Grey scale or Monoscope	EVF (CRT)	VR3 (V. HEIGHT) 30 VF (1)	Observing the viewfinder, adjust VR3 for normal picture amplitude.
3	Centering	Greÿ scale	EVF (CRT)	Centering magnet	 Pick up the grey scale to locate it at the center of TV picture, adjust the centering magnet so that image of the grey scale is positioned at the center of the viewfinder screen.
4	Focus	Grey scale	EVF (CRT)	Focus magnet	Observing the viewfinder, adjust the focus magnet of the deflection yoke to obtain a clear picture of the central part of the grey scale image.
5	Brightness	Iris closed (Lens capped)	EVF (CRT)	VR2 (BRIGHT) 30 VF (1)	With the iris closed, adjust VR2 so that the CRT raster of the viewfinder is just barely visible.
6	Contrast	Grey scale	EVF (CRT)	VR1 (CONT) 30 VF (1)	Observing the viewfinder, adjust VR1 to obtain the best gradation of the grey scale image.

3.8 REPLACEMENT AND ADJUSTMENTS OF AUTO FOCUS (AF) BOARD

3.8.1 AF board unit

The AF board unit is mainly consists of the pre-aligned TCL sensor and the AF lens assembly whose electrical adjustments are completely performed at the factory. (See Fig. 3-8-1.)

Therefore, main electrical adjustment of the AF board unit is alignment of the TCL sensor.



3.8.2 AF board unit replacement

- 1. Remove two screws (A) and three screws (B) securing the AF board unit, and pull out the AF board unit in the direction of the arrow.
- 2. Replace the AF board unit with a new one and fix it with the screws in the reverse order of its removal.

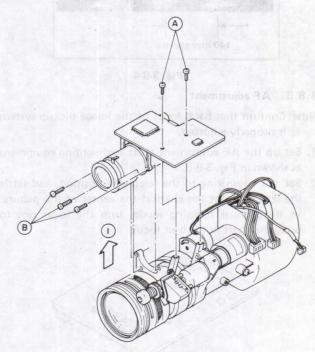
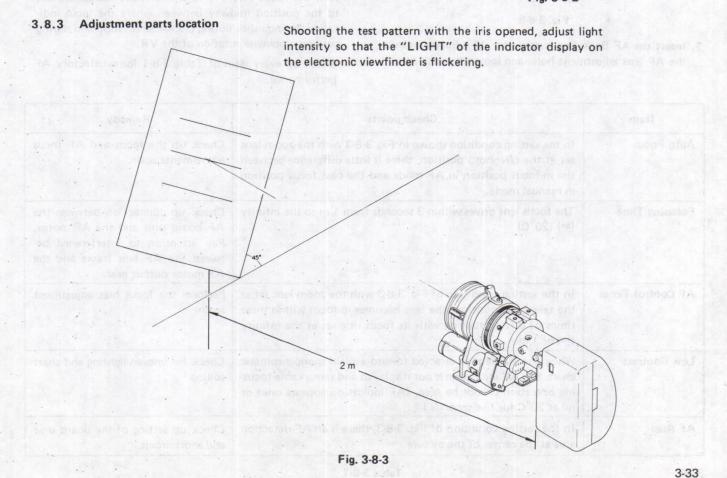


Fig. 3-8-2



World of free manuals

3.8.4 AF adjustment chart

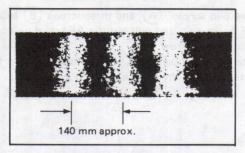


Fig. 3-8-4

3.8.5 AF adjustment

Note: Confirm that back focus of the image pickup system is properly adjusted.

- 1. Set up the AF adjustment chart and lighting equipment as shown in Fig. 3-8-3.
- Set the zoom ring to the telephoto position, and settle
 the lens to shoot the chart at the center of the picture.
 In the manual focusing mode, turn the focus ring to
 bring the chart in the best focus.

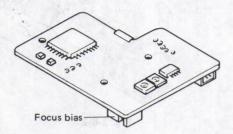


Fig. 3-8-5

3. Insert the AF Back Focus driver for AF adjustment into the AF lens adjustment hole, and loosen the lock screw.

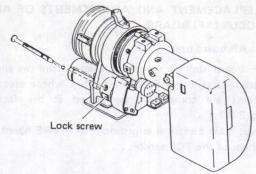


Fig. 3-8-6

 Observing the AF indication inside the electronic viewfinder, adjust the AF lens position with the AF Back Focus driver and tighten the lens with the lock screw.

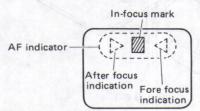


Fig. 3-8-7

- Repeat the same sequence of section 2.3. However, separate the AF unit and AF adjustment chart by 4 meters.
- 6. While observing the viewfirder display, use tweezers to torn the focus bias VR to where focus indication. Set to the position midway between where the focus indication extinguishes during clockwise rotation and during counter-clockwise rotation of the VR.
- Check up every item of Table 3-8-1 for satisfactory AF performance.

Item	Check points	Remedy
Auto Focus	In the setting condition shown in Fig. 3-8-3 with the zoom lens set at the telephoto position, there is little difference between the in-focus position in AF mode and the best focus position in manual mode.	Check up the focus and AF focus adjustments again.
Focusing Time	The focus lens drives within 3 seconds from 1 m to the infinity (∞) (20°C).	Check up connection between the AF board unit and the AF motor. Pay attention to interference between the AF lens frame and the AF motor output gear.
AF Control Times	In the setting condition of Fig. 3-8-3 with the zoom lens set at the telephoto position, the lens becomes in-focus within three times of driving starting with its focus ring set at the infinity (∞) or 1 m.	Perform the focus bias adjustment again.
Low Contrast	When the AF lens is directed toward a plain monochromatic chart, any AF indication is not displayed and remarkable focusing operation cannot be seen. (AF indication appears once or nil at 20°C for five seconds.)	Check for uneven lighting and chart soiling.
AF Area	In the setting condition of Fig. 3-8-3, there is an AF detection area at the center of the picture.	Check up setting of the board unit and shortcircuit.

SECTION 4 DIAGRAMS AND CIRCUIT BOARDS

4.1 SCHEMATIC DIAGRAM NOTES

- parts are safety related parts. When replacing them, be sure to use the specified parts.
- 2. Voltage and waveform measurements.

Voltage: Measured with a digital voltmeter in DC

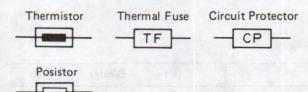
range.

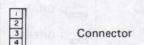
Waveform: When the grey scale pattern which is lighted up brightly is shot in the Full-Auto mode,

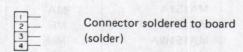
waveforms become as follow;

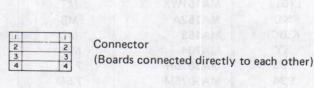
3. Unit indications

No units: $[\Omega]$ No units: $[\mu F]$ $\mu/\mu H$: $[\mu H]$ K: $[k\Omega]$ P: [pF] m: [mH] M: $[M\Omega]$







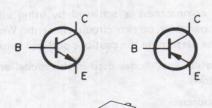


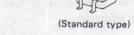


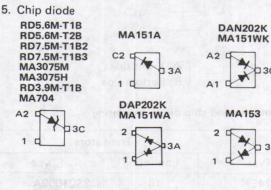
COUNT UP : Active only at high. COUNT DOWN : Active only at low.

: Connected pattern in the board.

4. Chip transistor

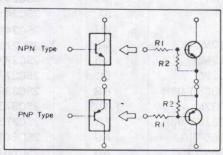








6. Digital transistor



RESISTOR VALUES

JUNCTION	Part No.	R1 $(k\Omega)$	R2 (kΩ)	
Despire	DTA124EK	22	22	
PNP	DTA144EK	47	47	
	UN2112	22	22	
NIDM	FA1F4M	47	47	
NPN	DTC144EK	47	47	
	DTC114YK	10	47	

Note: The digital transistor includes built in resistors.

It features small size and high reliability. Both PNP and NPN types are available.

USES: INVERTER, INTERFACE, DRIVER CIRCUITS.

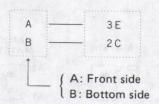
4.2 REPLACING SUBMINIATURE "CHIP" PARTS

- 1. Some resistors, shorting jumpers (0 Ω resistance), ceramic capacitors, transistors, and diodes are chip parts. These chip parts cannot be reused after they are once removed.
- 2. Additional compactness is achieved by using subminiature chip parts for certain circuit elements. When replacing these parts, note the cautions outlined below.

Chip transistors and diodes used in this model are outlined as follows.

3. Chip part addresses

In the circuit diagrams, blue lettering refers to chip part mounting position addresses.



4. Required tools:

- 1) Fine tipped, well insulated soldering "pencil", about 30 Watts.
- 2) Tweezers
- 3) Blower type hair dryer.

5. Soldering cautions:

- 1) Do not apply heat for more than 3 seconds.
- 2) Avoid using a rubbing stroke when soldering.
- 3) Discard removed chips; do not reuse them.
- 4) Supplementary cementing is not required.
- 5) Use care not to scratch or otherwise damage the chips.

6. Removal (resistors, capacitors, etc.):

1) Melt the solder at one side.



Fig. 4-1

Chip transistor and chip diode imprinting

	Trans	sistors		Dic	odes
Туре	Imprinting	Туре	Imprinting	Туре	Imprinting
DTA124EK DTA144EK DTC114YK DTC144EK DTC144WK UN2112 FA1F4M FMS2 FMW2 2SA812M6 2SA1022C 2SA1036KT-96R 2SA1037K 2SA1037KT-96R	15 16 64 26 86 68 M6 S2 W2 M5 M6 EC HR F(Q-S) FR AG AG Y33 Y12 (BV1-BV5) (BV1-BV5) (BV1-BV5)	2SC1009A 2SC1623 2SC1623L5 2SC1623L6 2SC2412K 2SC2412KT-96R 2SC2412KT-97R 2SC2413KT-96PQ 2SC2413KT-97PQ 2SC2712GL 2SC2778C 2SC2778C 2SC2778C 2SC3735-T1BB33 2SC3735-T1BB34 2SD601 2SD601R 2SD601R 2SD813R 2SK198 2SK198PQ 2SK621	(FA3,FA4) L(4-7) L5 L6 B(Q-S) BR BR A(PQ) A(PQ) L(GL) KC K(BC) BY B33 B34 Y(O-T) YQ YR QR 10(P-R) 10(PQ) 30	DA204K DAN202K DAP202K DSA010 MA151A MA151K MA151WA MA151WK MA152A MA153 MA704 MA3075H MA3075H MA3075M RD3.9M-T1B RD5.6M-T1B RD5.6M-T2B RD7.5M-T1B2 RD7.5M-T1B3	ORANGE GRAY GREEN W1 MA MH MN MT MB MC MIK 7.5H 7.5M 391 561 561 7.52 7.53

Grasp the part with tweezers and melt the solder at the other side.

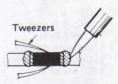


Fig. 4-2

3) Remove the part with a twisting motion.

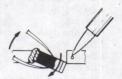


Fig. 4-3

- 7. Removal (transistors, diodes, etc.):
 - 1) Melt the solder of one lead.



Fig. 4-4

2) Lift the side of that lead upward.

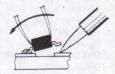


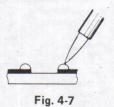
Fig. 4-5

3) Simultaneously heat solder of the two remaining leads and lift part to remove.



Fig. 4-6

- Preheating (except for semiconductors):
 Immediately before installing new resistors or capacitors, use a blower type hair dryer and preheat the part for about two minutes at approximately 150°C.
- 9. Replacement:
 - 1) Presolder the contact points of the circuit pattern.



2) Press the part downward with tweezers and apply the soldering pencil as indicated in the figure.

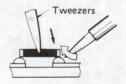


Fig. 4-8

4.3 POWER SUPPLY

Designation	Description							
AL 9.6 V	Power supplied directly from battery or via DC jack.							
AL 5 V	Obtained from AL 9.6 V through regulator IC1 of the 0 1 MAIN board.							
SW 9.6 V	Obtained from AL 9.6 V which is controlled by the POWER switch and supplied via relay RY-1 of the 0 1 MAIN board.							
SW 5 V (1)	Obtained from SW 9.6 V through regulator DC-DC convertor of the 0 1 MAIN board.							
MOTOR 9.6 V	SW 9.6 V supplied to drum and capstan motors.							
LOAD 9.6 V	SW 9.6 V supplied to mode control motor.							
CA 9.6 V	Supplied the SW 9.6 V to camera.							
EE 20 V	This is produced from CA 9.6 V by DC-DC convertor.							
EE 15 V	This is produced from CA 9.6 V by DC-DC convertor.							
EE 8 V	This is produced from CA 9.6 V by DC-DC convertor.							
EE 9 V	This is produced from CA 9.6 V by DC-DC convertor.							
SW 8 V (2)	CA 9.6 V rectified to 8 V by 2 4 EE & IND IC6.							
SW 8 V (1)	CA 9.6 V rectified to 8 V by 2 8 REGULATOR Q1 and IC1.							
SW 5 V (2)	CA 9.6 V rectified to 5 V by 2 8 REGULATOR DC-DC converter.							

4.4 KEY TO ABBREVIATIONS

	4 KEY TO	ABBREVIATIONS			
A	AC	: Alternating Current		COMP	: Comparator
	ACC	: Automatic Color Control		pios is tiam	Composite
	A/CTL	: Audio/Control			Compensation
	ADC	: Analog to Digital Converter		CONN	: Connector
	ADD	: Adder		CONV	: Converter
	ADJ	: Adjustment		CP	: Circuit Protector
	A DUB	: Audio Dubbing			Clamp Pulse
	AE	: Audio Erase		CPC	: Capstan Phase Control
	AEF	: Automatic Editing Function		CPU	: Central Processing Unit
	AFC	: Automatic Frequency Control		CTC	: Crosstalk Cancel
	AFT	: Automatic Fine Tuning		CTL	: Control
	AGC	: Automatic Gain Control		0.12	· CONTROL
	AH	: Audio Head	D	D	D Di ital Di ta D
	AHD	: Audio High Density Disk	U		: Drum, Digital, Diode, Drain
	AL	: After Loading		DAC	: Digital to Analog Converter
	ALC	: Automatic Light Compensation		dB	: Decibel
	7120	Automatic Level Control		DC	: Direct Current
	ALM	: Alarm		DD	: Direct Drive
	ALU	: Arithmetic Logic Unit		DEC	: Decoder
	AM	: Amplitude Modulation		DEMOD	: Demodulator
	AMP	: Amplifier		DEMUX	: Demultiplexer
	ANT	: Antenna		DET	: Detector
				DEV	: Deviation
	APC	: Automatic Pedestal Control		DFRS	: Drum Free Running Stop
	ADI	Automatic Phase Control		DG	: Differential Gain
	APL	: Average Picture Level		DIF	: Differential
	A/S/M	: Audio/Servo/Mechacon		DISCR	: Discriminator
	ASS'Y	: Assembly		DL	: Delay Line
	ATT	: Attenuator		DOC	: Dropout Compensator
	AUD	: Audio		DOD	: Drop Out Detector
	AUTO	: Automatic		DP	: Differential Phase
	AUX	: Auxiliary		DPC	: Drum Phase Control
				DYAC	: Dynamic Aperture Control
В	В	: Base, Blue			
	BAL	: Balance	E	E	. Edia Carissan
	BATT	: Battery	-		: Edit, Emitter
	BBD	: Bucket Brigade Device		EDP	: Electronic Data Processing
	BCD	: Binary Coded Decimal		E-E	: Electric to Electric
	BEG	: Beginning		EF	: Emitter-Follower
	BF			EMP	: Emphasis
		: Behind Focus		EN	: Enable
	BFP	: Burst Flag Pulse		ENC	: Encoder
	BIT	: Binary Digit		ENV	: Envelope
	BLK	: Black, Blanking		EOT	: End of Tape
	BLU	: Blue		EP	: Extended Play
	BNC	: Bayonet Connector		EQ	: Equalizer
	ВОТ	: Beginning of Tape		ES	: Electronic Switch
	BPF	: Bandpass Filter		ESNS	: End Sensor
	BRK	: Brake		EXP	: Expander
	BRN	: Brown		EXT	: External
	BRT	: Brightness			
	BT	: Band Tuning	F	F	. Found Fine
	BUFF	: Buffer	-		: Farad, Fuse
	BW or B/W	: Black and White		FADV	: Frame Advance
				FDP	: Fluorescent Display Panel
2	C	: Capacitance, Collector, Color		FE	: Full Erase
	CAL	: Calibration		FET	: Field Effect Transistor
	CAP	: Capstan, Capacitor		FF	: Fast Forward, Front Focus
	CAR			Viewsdamen	Flipflop
		: Carrier		FG	: Frequency Generator
	CARR	: Carrier		FM	: Frequency Modulation
	CASS	: Cassette		FMA	: FM Audio
	CC	: Cassette Compartment		FR	: Full Recording, Frame, Fusible Resistor
	CCD	: Charge Coupled Device		FREQ	: Frequency
	CCT	: Circuit		F-V CONV	: Frequency to Voltage Converter
		· Cadmium Culphida		FWD	: Forward
	CdS	: Cadmium Sulphide		FWDS	: Forward Search
	CdS CD	: Count Down			. I OI Wald Ocal Cil
	CdS CD CE	: Count Down : Chip Enable		er louings and	or or being purely a light state of the city
	CdS CD CE CF	: Count Down : Chip Enable : Ceramic Filter, Color Frame, Correct Focus	G	G	m orbeingeus / a g WS aw ale UA
	CdS CD CE CF CH	: Count Down : Chip Enable	G	G	: Green, Gate, Grid
	CdS CD CE CF CH CHG	: Count Down : Chip Enable : Ceramic Filter, Color Frame, Correct Focus : Channel : Charge	G	GEN	: Green, Gate, Grid : Generator
	CdS CD CE CF CH CHG CHROMA	: Count Down : Chip Enable : Ceramic Filter, Color Frame, Correct Focus : Channel : Charge : Chrominance	G	GEN GND	: Green, Gate, Grid : Generator : Ground
	CdS CD CE CF CH CHG CHROMA CLK	: Count Down : Chip Enable : Ceramic Filter, Color Frame, Correct Focus : Channel : Charge	G	GEN GND GRN	: Green, Gate, Grid : Generator : Ground : Green
	CdS CD CE CF CH CHG CHROMA CLK CLR	: Count Down : Chip Enable : Ceramic Filter, Color Frame, Correct Focus : Channel : Charge : Chrominance	G	GEN GND	: Green, Gate, Grid : Generator : Ground
	CdS CD CE CF CH CHG CHROMA CLK	: Count Down : Chip Enable : Ceramic Filter, Color Frame, Correct Focus : Channel : Charge : Chrominance : Clock	8 0 (1 c) 18 0 (1 c) 18 0 (1 c)	GEN GND GRN GRY	: Green, Gate, Grid : Generator : Ground : Green : Gray
	CdS CD CE CF CH CHG CHROMA CLK CLR	: Count Down : Chip Enable : Ceramic Filter, Color Frame, Correct Focus : Channel : Charge : Chrominance : Clock : Clear	G	GEN GND GRN GRY	: Green, Gate, Grid : Generator : Ground : Green : Gray
	CdS CD CE CF CH CHG CHROMA CLK CLR	: Count Down : Chip Enable : Ceramic Filter, Color Frame, Correct Focus : Channel : Charge : Chrominance : Clock : Clear : Command : Complementary Metal Oxide	8 0 (1 c) 18 0 (1 c) 18 0 (1 c)	GEN GND GRN GRY	: Green, Gate, Grid : Generator : Ground : Green : Gray
	CdS CD CE CF CH CHG CHROMA CLK CLR CMD CMOS	: Count Down : Chip Enable : Ceramic Filter, Color Frame, Correct Focus : Channel : Charge : Chrominance : Clock : Clear : Command : Complementary Metal Oxide Semiconductor	8 0 (1 c) 18 0 (1 c) 18 0 (1 c)	GEN GND GRN GRY	: Green, Gate, Grid : Generator : Ground : Green : Gray
	CdS CD CE CF CH CHG CHROMA CLK CLR CMD CMOS CMOS	: Count Down : Chip Enable : Ceramic Filter, Color Frame, Correct Focus : Channel : Charge : Chrominance : Clock : Clear : Command : Complementary Metal Oxide Semiconductor : Count, Counter	8 0 (1 c) 18 0 (1 c) 18 0 (1 c)	GEN GND GRN GRY	: Green, Gate, Grid : Generator : Ground : Green : Gray : High, Henry, Hour : Horizontal Burst Flag
	CdS CD CE CF CH CHG CHROMA CLK CLR CMD CMOS	: Count Down : Chip Enable : Ceramic Filter, Color Frame, Correct Focus : Channel : Charge : Chrominance : Clock : Clear : Command : Complementary Metal Oxide Semiconductor : Count, Counter	8 0 (1 c) 18 0 (1 c) 18 0 (1 c)	GEN GND GRN GRY H HBF HD	: Green, Gate, Grid : Generator : Ground : Green : Gray : High, Henry, Hour : Horizontal Burst Flag : Horizontal Drive
	CdS CD CE CF CH CHG CHROMA CLK CLR CMD CMOS CMOS	: Count Down : Chip Enable : Ceramic Filter, Color Frame, Correct Focus : Channel : Charge : Chrominance : Clock : Clear : Command : Complementary Metal Oxide Semiconductor : Count, Counter	8 0 (1 c) 18 0 (1 c) 18 0 (1 c)	GEN GND GRN GRY H HBF HD HG	: Green, Gate, Grid : Generator : Ground : Green : Gray : High, Henry, Hour : Horizontal Burst Flag : Horizontal Drive : Hall Generator

	IC ID	: Integrated Circuit : Identification (Pulse)		REG REM	: Regulated, Regulator : Remote
	IF	: Intermediate Frequency		REMOCON	: Remote Control (Unit)
	IFR	: Infrared		REV	: Reverse
	IFT	: Intermediate Frequency Transformer		REV S	: Reverse Search
	IND	: Indicator		REW	: Rewind
	INH	: Inhibit		RF	: Radio Frequency
	INS	: Insert		ROM	: Read Only Memory
	INT	: Internal, Interrupt		R/P	: Record/Playback
	INV	: Inverter, Interleave		RPT	: Repeat
	1/0	: Input/Output		RS FF	: RS Flipflop
	IR	: Infrared		RST	: Reset
				RT	: Rotary Transformer
	L	: Low, Left		RUN	: Running
	LCD	: Liquid Crystal Display		RY	: Relay
	LED	: Light Emitting Diode	S	SAW	: Sawtooth, Surface Acoustic Wave
	LIM	: Limiter		SC	: Subcarrier, Simulcast
	LIN	: Linearity		SCH	: Search
	LLD	: Low Light Detector		SEL	: Select, Selector
	LOAD	: Loading (Cassette)		SENS	: Sensor
	LP	: Long Play		SEP	: Separator
	LPF	: Lowpass Filter		SF	: Source Follower
	LSB	: Lower Sideband		SFF	: Short Fast Forward
N	M	: Motor, Mega		SIF	: Sound Intermediate Frequency
	MAX	: Maximum		SN	: Signal to Noise Ratio
	MDA	: Motor Drive Amplifier		SOL	: Solenoid
	MECHACON	: Mechanism Control		SOS	: Sound on Sound
	MIC	: Microphone		SP	: Standard Play
	MIN	: Minimum		SR	: Supply Reel
	MIX	: Mixer, Mixing		SREW	: Short Rewind
	MMV	: Monostable Multivibrator		S/S	: Slow/Still
	MNOS	: Metal Nitride Oxide Semiconductor		SSG	: Sync Signal Generator
	MOD	: Modulation, Modulator		SSNS	: Start Sensor
	MODEM	: Modulator-Demodulator		STD	: Strobe Data, Standard
	MON	: Monitor		SUP	: Supply
	MOS	: Metal Oxide Semiconductor		SW	: Switch
	MPX	: Multiplexer, Multiplex		SWD	: Switched
	MS	: Mode Select		SYNC	: Synchronization
	MUT	: Muting	PART BE	SYSCON	: System Control
1	NAND	: Not-And	Т	TAL	: Tally
V	NC	: Not Connected, Normally Closed		TBC	: Time Base Corrector
	NFB	: Negative Feedback		TC	: Tension Control, Time Code
	NLN	: Non-Linear		TEN	: Tension
	NO	: Normally Open		TF	: Thermal Fuse
	NOR	: Normal, Not-Or		TIM	: Timing
	NR	: Noise Reduction		TK	: Tracking
				TNR	: Tuner
)	OP	: Operation		TP	: Test Point
	OPAMP	: Operational Amplifier		TPZD	: Trapezoid
	ORN	: Orange		TR	: Transistor, Trimmer
	OSC	: Oscillator		TRANS	: Transformer
				T/T	: Tuner/Timer
•	PB	: Playback		TU	: Take-up
	PC	: Photocoupler, Pulse Counter	U	UL	: Unloading -
	PCM	: Pulse Code Modulation		UNREG	: Unregulated
	PG	: Pulse Generator		UNSW	: Unswitched
	PGM	: Program			
	PI	: Photo Interrupter	V	V	: Vertical, Volt
	PIF	: Picture Intermediate Frequency		VACT	: Video Action
	PLA PLL	: Programmable Logic Array		VCO	: Voltage Controlled Oscillator
	POS	: Phase Locked Loop : Position		VD	: Vertical Drive
		: Position : Peak-to-Peak		VIF	: Video Intermediate Frequency
	p-p PR	: Pinch Roller		VLT	: Violet
	PREAMP	: Preamplifier		VR	: Variable Resistor
	PRL	: Preroll		VS	: Video and Sync
	P/S	: Pause/Still		VSCH	: Variable Search
	PSC	: Pulse Swallowing Control		V/T V/U	: Video/Television : VHF/UHF
	PU	: Pickup		VXO	: VHF/UHF : Variable Crystal Oscillator
	PUT	: Programmable Unijunction Transistor			DESCRIPTION OF THE PROPERTY OF
	PWB	: Printed Wiring Board	W	W	: Watt
	PWM	: Pulse Width Modulation		WARN	: Warning
	PWR	: Power		W & D	: White and Dark
	THE RESERVE OF THE PARTY OF THE			WHT	: White
		: Quality Factor		WV	: Working Voltage
	Q				
	A THE RESERVE	: Red. Right	×	XTAI	: Crystal
1	R	: Red, Right : Resistor Array	x	XTAL	: Crystal
	A THE RESERVE	: Red, Right : Resistor Array : Random Access Memory	X	XTAL Y YEL	: Crystal : Luminance : Yellow

4.5 COMPONENT TERMINAL D.C VOLTAGE TABLES

4.5.1 0 1 MAIN (REGULATOR SECTION)

■ INTEGRATED CIRCUITS

IC NO.	STOP	SP PLAY
IC1 ①	0	0
2	10.3	9.9
3	4.9	4.9

■ TRANSISTORS

MODE		STOP	· Laphagor		SP PLAY	
TR NO.	E	C	В	E	C	В
Q1	10.1	0	10.1	10.0	0	10.3
Q2	4.9	0	4.9	4.9	0	10.3
Q3	0	10.1	0	0	10.0	0
Q1 Q2 Q3 Q4	0	10.1	0	0	10.0	0

4.5.2 0 1 MAIN (SERVO SECTION)

■ INTEGRATED CIRCUITS

IC NO. MODE	SP PLAY	LP PLAY	IC NO. MODE	SP PLAY	LP PLAY
IC101 ① ② ③ ④ ⑥ ⑥ ⑦ ⑥ ⑨ ⑩	0 1.6 1.9 1.6 1.9 2.4 2.2 0 2.4 0	0 1.6 2.0 1.6 1.9 2.3 2.2 0 2.4 0.4	IC102 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧	1.3 1.4 1.3 0 1.9 2.6 0.4 5.1	1.3 1.4 1.3 0 1.9 3.1 0.4 5.1
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	5.1 0 2.4 2.6 2.2 0.5 2.5 2.6 2.5 2.4 4.6 2.6 2.6 0 0 0 4.6 4.2 0.4	1.9 5.0 0.6 2.6 2.4 0.5 2.2 2.2 2.4 2.7 0 2.6 2.6 0.2 0.3 0.1 4.6 4.2	IC103 ① ② ③ ④ ④ ⑤ ⑥ ① ⑦	1.2 1.2 0 1.2 2.6 2.0 2.4 8.0	1.2 1.2 0 1.3 2.7 2.1 2.4 8.1
588888888888 5888 5888 5888 5888 5888	0 0.4 4.9 0 0 0 0 2.2 1.8 1.7 3.4 3.4 3.4 3.4	0 0.4 4.9 0 0 0 1.8 2.7 1.3 1.7 2.7 3.0 3.4 3.3	IC104 ① ② ③ ④ ⑤ ⑥ ⑦ ⑥ ⑥ ⑦ ⑥ ③ ⑥ ⑥ ⑦ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥	0 1.7 2.5 2.4 2.5 1.9 2.0 3.1 3.0 5.1 0 0 0.9	0 1.7 2.5 2.5 2.5 2.5 1.9 2.0 3.1 3.0 5.1 0 0 5.6 0

■ INTEGRATED CIRCUITS

	_	ATED	IRCUITS		THE AM	Mar Isla
IC NO. MO	DE	SP PLAY	LP PLAY	IC NO. MODE	SP PLAY	LP PLAY
IC104 (II)	8 9	2.8 2.5 2.4 2.5 8.0	3.6 2.5 2.4 2.5 8.0	IC106 8 9 00 00 00 00 00 00 00 00 00 00 00 00 0	5.1 0 2.4 1.3 2.6 2.6 2.6 2.6 2.4	5.1 0 0 1.4 2.6 2.6 2.6 2.4
IC105 (1) (2) (3) (4) (5) (6) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7		5.0 0.4 4.6 0.4 4.5 5.0 0 0 0 0 3.8 3.8 4.9 5.0 0 0	5.0 0.4 0 0.4 4.5 4.9 0 0 0 0 0 4.2 4.2 4.2 4.9 0 5.0 0 5.0	IC107 ① ② ③ ④ ⑤ ⑥ ⑦ ⑥ ⑥ ② ③ ④ ⑥ ⑥ ③ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥	1.9 1.9 0 4.5 0 0.4 1.7 1.9 5.1 1.1	1.2 1.2 0 4.5 0 0.4 1.1 1.2 5.1 0.5
IC106 (1 2 3 4 5 6		0 2.4 2.6 2.6 2.6 2.5 2.5	0 2.3 2.6 2.6 2.6 2.5 2.5		Ost Strick	

TRANSISTORS

MODE		SP PLAY			LP PLAY	
TR NO.	E	C	В	E	C	В
Q101	0	0	4.6	0	2.4	. 0
Q102	-	<u>+</u>	-	-	T-100	-
Q103	-	-	-	-	-	-
Q104	2.2	2.4	2.0	2.3	2.4	2.0
Q105	2.3	2.4	2.0	2.4	2.4	2.0
Q106	2.3	2.4	2.0	2.3	2.4	2.0
Q107	2.3	2.4	1.9	2.3	2.4	1.9
Q108	-	-	100	-	-1975	-
Q109	_	- 100	- 23		-	
Q110	3.0	1.9	2.0	3.1	1.9	2.0
Q111	0	0.1	0	0	0	0
Q112	0	0.9	0	0	0	4.9
Q113	0	0	4.9	0	0.6	0
Q114	-ito:	1.37-101	v E - eter		-29	-
Q115	1.9	0	1.8	2.4	0	1.2
Q116	1.8	0	1.8	2.4	0	1.2
Q117	1.9	1.7	1.1	2.3	1.1	0.5
Q118	1.8	1.7	1.1	2.4	1.1	0.5
Q119	0	2.2	0	0	1.2	0.5
Q120	0	1.1	0	0	0	5.0
Q121	4.2	0	. 3.8	4.2	0	3.8
Q122	3.8	5.0	4.2	4.8	5.0	4.4

Note: Voltage at every part of 01 MAIN board was measured with a digital voltmeter (DC range) with the following input signals:
1) Color bars in REC mode
2) In PB mode, playback of the alignment tapes of MH-C2 (color bars segment in SP mode) and CH-C5L (in LP mode).

4.5.3 0 1 MAIN (AUDIO SECTION)

■ INTEGRATED CIRCUITS

SP PLAY	SP REC
2.4 2.2 2.3 2.3 2.3 2.4 2.4 2.4 2.4 4.8 2.4 0 0 0 0 0 0 2.4 2.2 4.7 2.4	2.3 2.2 2.2 2.3 2.3 2.4 2.4 2.5 4.7 2.3 2.4 0 0.4 0 4.7 2.3 2.2 4.7 2.3
0 0 0 0 4.8 0	7.6 7.6 0 3.3 4.7 0
	0.0043
	2.4 2.2 2.3 2.3 2.3 2.3 2.4 2.4 2.4 4.8 2.4 2.4 0 0 0 0 0 0 2.4 2.2 4.7 2.4

■ TRANSISTORS

MODE		SP PLAY SP REC	SP REC			
TR NO.	E	C	В	E	C	В
Q301	_	-	_	_	_	_
Q302	0	3.8	0	0	0	3.3
Q303	0	0	3.8	0	4.7	0
Q304	0	0	4.6	. 0	4.6	0
Q305	. 0	0	0	0	0	0
Q306	0	0	0	0	0	0
Q307	. 0	0	0	0	0	
Q308	0	4.7	0	0.4	4.7	0
Q309	4.7	0	4.7	4.7	0	4.7
Q310	8.0	0	.8.0	8.0	7.8	0
Q311	0	8.0	0	0	0	3.3
Q312	0	0	0	7.9	7.7	0
						16
		PART OF THE			A SECTION	126

4.5.4 0 1 MAIN (MECHACON SECTION)

■ INTEGRATED CIRCUITS

IC NO.	STOP	IC NO. MODE	STOP	IC NO.	STOP
IC401 ① ② ③ ④ ④ ⑤ ⑥ ⑦ ⑧	5.0 4.9 4.9 4.9 4.9 4.9 4.9	IC403 ① ② ③ ③ ⑥ ⑥ ⑥ ⑥ ⑥	4.9 0 4.9 4.5 4.9 4.9	IC407 (8) (9) (10) (10) (12) (13) (14)	0.6 0.2 0 0 2.5 3.0
990099999999999999999999999999999999999	4.9 0 4.8 0 4.9 0 4.9 4.9 3.1 5.1 4.8 0 0 4.9	(9) (20) (10) (10) (10) (10) (10) (10) (10) (1	4.9 5.0 4.9 0 4.9 0 4.9 0 4.9 0 0.6 0	IC408 ① ② ③ ④ ⑤ ⑥ ① ① ③ ⑥ ① ② ③ ⑥ ⑥ ② ③ ⑥ ⑥ ② ③ ⑥ ⑥ ③ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥	0 0 0 5.0 0 5.0 0 4.5 0 5.0 4.9 5.0 4.7 5.0
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	0 4.9 4.9 4.9 4.9 4.9 0 4.9	3 4 6 7 8	0.3 0 5.1 4.9 4.7 4.9 5.0	IC409 ① ② ③ ④ ⑤ ⑥	0.7 5.0 0.7 5.0 0 5.0
89 89 89 89 90 90	0 0 0 0 0 0 4.8 5.0	IC405 ① ② ③ ④ ⑤ ⑥	4.9 4.6 4.9 4.6 4.9 4.5	8 9 1 1 2 3 4	0 4.4 0 4.7 5.0 0 5.0
· · · · · · · · · · · · · · · · · · ·	4.7 5.0 0 0 4.7 0 0 0 4.7 0 0 0	® © © © © © © © © © © © © © © © © © © ©	4.6 4.9 0 5.1 4.9 0 4.9 5.1 4.9 5.1 4.9 5.0	IC410 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ① ② ③ ⑥ ⑥ ⑦ ⑧ ⑨ ① ② ③ ⑥	5.0 0 5.0 0 4.2 4.2 0 0 4.5 5.0 5.0
99 90 90 90 90 80 80	0 4.9 5.1 4.9 1.8 1.3	IC406 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ①	0 0 0 0 0 0 10.5 10.5	IC411 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧	0 0 5.0 4.5 4.5
IC403 ① ② ③ ④ ⑥ ⑥ ⑦ ⑧ ⑧ ⑨ ①	4.9 5.1 4:9 5.0 4.9 5.1 4.8 4.9	IC407 ① ② ③ ④ ⑤ ⑥	0 3.1 2.6 5.1 0 2.6 0	◎ ③ ③ ③ ③ ③ ③ ③ ③ ③ ③ ③ ③ ③	5.0 5.0 5.0 5.0 5.0 5.0

■ TRANSISTORS

MODE		STOP	
TR NO.	E	C	В
Q402	0	10.5	0
Q403	0	4.9	0
Q404	0	8.0	0
Q405	0	3.3	0
Q406	0	0	4.8
Q407	0	0	5.0
Q408	0	0	4.9
Q409	0	4.5	0
Q410	0	0	4.7
Q411	0	5.0	0
Q412	0	10.5	0
Q413	10.5	0	10.5

4.5.5 0 1 MAIN

CONNECTORS

CN NO. MODE	STOP	SP PLAY	LP PLAY	SP REC
CN1 ① ② ③	10.5 0 0	10.4 0 0	E	=
CN2 ① ②	Ξ	0	Ē	7.6 7.6
CN3 ① ②	40	0	Ξ	0
CN4 ① ② ③ ④	= = = = = = = = = = = = = = = = = = = =	0 0 0 5.1	=	0 0 0 5.1
CN5 ① ② ③ ④ ⑤ ⑥ ⑦		5.1 0 2.6 6.8 4.8 0	5.1 0 2.6 6.8 4.8 0	1,1,1,1,1,1
CN6 ① ②	=	0 0	0 0	Ξ
CN7 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧		0 0 2.7 3.1 0 3.0 2.9 0	0 0 3.4 0 0 3.4 2.9	11111111

CN NO.	STOP	SP PLAY	LP PLAY	SP REC
CN8 ① ② ③ ④ ⑤ ⑥ ⑦ ⑥ ①		3.1 0 8.0 5.1 5.1 0 0 0	3.1 0 8.0 5.1 5.1 0 0 0	1111111
CN9 ① ② ③ ④ ⑤ ⑥ ⑦ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥		4.9 4.8 0 4.9 4.9 0 0 0 0 0 4.9 5.1 5.1 4.6 4.6	4.9 4.8 0 4.9 4.9 0 0 0 0 0 0 4.9 0 0 5.1 5.1 4.6 4.6	
CN10A ① ② ③ ④ ⑤		4.9 4.9 4.9 4.9	4.9 4.9 4.9 4.9	
CN10B ① ② ③ ④ ⑤ ⑥ ⑦	- - - - - -	0 0 0 0 0 0	0 0 0 0 0 0	I I I
CN11 ① 2 3 4 5 6 7 8 9		0 5.1 0 4.9 2.7 0 0 0 8.0	0 5.1 0 4.9 2.7 0 0 0 8.0	
CN12 ① ② ③ ④ ⑤ ⑥ ⑥ ⑦ ⑥ ⑥ ⑥ ⑦ ⑥		3.0 0 0 0 0 0 0 0 0 0 0	3.1 0 0 0 0 0 0 0 0 0 0 3.1	111111111

CONNECTORS

CN NO.	STOP	SP PLAY	LP PLAY	SP REC
CN13 ① ② ③ ④ ⑤ ⑥ ⑦		0 0 0 0 0 0	0 0 0 0 0 0	
CN 14 ① ②	1	0	0	
CN15 ① ② ③	Ē	0 0 0	0 0 0	
CN16 ① ②	Ξ	0	0	
CN17 ① ② ③ ④ ⑤		0 0 0 2.5 2.5	0 0 0 2.5 2.5	
CN18 ① ② ③ ④ ⑤ ⑥ ⑦ ③ ⑥ ⑦ ⑥ ⑥ ⑦ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥	0 0 10.5 0 8.1 4.6 0 0 5.1 0 0			
CN19 ① ② ③ ④	5.1 0 5.1 0	- ps n	- - - -	<u> </u>
CN20 ① ② ③ ④	0 0 0 0 2.2			1
CN21 ① ② ③	0 0 0	=	=	=

4.5.6 0 2 Y/C

■ INTEGRATED CIRCUITS

IC NO.	SP PLAY	LP PLAY	SP REC	LP REC
C1	2.3 0.4 2.7 2.8 2.1 3.0 1.3 1.5 0 1.9 0 2.6 2.5 3.0 3.6 3.0 4.1 4.1 2.6 1.9 0 2.0 4.8 3.7 0.5 2.9 1.7 1.3	2.7 0.4 2.7 2.8 2.2 0 1.3 1.5 0 2.0 0 2.6 2.4 3.0 3.6 2.7 4.1 4.1 2.6 1.9 2.0 0 4.8 3.9 1.9 3.1 2.3 1.3	1.7 0 2.2 2.8 2.4 3.0 1.3 1.5 0 1.9 0.4 0.7 3.2 2.7 4.0 0 1.9 2.0 2.1 4.9 4.0 0.5 3.1 0	2.2 0 2.7 2.8 2.4 3.0 0 1.5 0 1.9 0 4.5 0.4 0.6 3.2 2.7 4.0 4.0 2.7 1.9 2.0 4.0 3.3 0 3.3 0 0.3 1.5
IC2 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ①	3.4 1.3 0 1.8 1.8 4.7 3.3 3.5 2.8 3.5	3.4 1.3 0 0 1.8 4.7 3.3 3.5 2.8 3.5	0 0 0 1.7 0 0 0 0	0 0 0 0 0 0 0
1C3 (3) (4) (5) (6) (7) (8) (9) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	2.7 3.2 3.4 1.3 2.4 0 1.8 4.7 3.3 3.5 2.8 3.5 3.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.7 3.2 3.4 1.3 2.4 0 1.8 4.7 3.3 3.5 2.8 3.5 3.5 3.5 0.8 1.2 0 2.1 2.1 0 3.6 0 4.7 3.1 1.8 3.1 3.5 4.7	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0.1 0 0 0 0 0 0 0 0 0 0 0 0

Note: Voltage at every part of O2 Y/C board was measured with a digital voltmeter (DC range) with the following input signals:

1) Color bars in REC mode
2) In PB mode, playback of the alignment tapes of MH-C2 (color bars segment in SP mode) and CH-C5L (in LP mode).

IC NO.	SP PLAY	LP PLAY	SP REC	LP REC
IC4 ① ② ③ ④ ④ ⑤ ⑥	1.2 0.6 0 0 3.5 3.5	1.2 0.8 0 0.8 3.5 3.5	0 0 0 0 0	0 0 0 0 0
IC5 ① ② ③ ④ ④ ⑤ ⑥ ⑦ ⑦ ⑧ ⑨	0 5.0 4.2 0 0.1 0 0 3.0 4.6	0 5.0 4.2 0 4.8 0 4.8	0 5.0 4.2 0 0 0 0 5.0 4.6	0 5.0 4.2 0 4.9 0 5.0
1C6	0 2.7 2.8 0 1.3 1.2 0 4.8 2.3 0 4.8 3.2 0 3.1 0 0.2 4.3 2.8 7.9 4.9 2.8 2.8 3.5 0.7 3.0 2.7 0	0 2.7 2.8 0 1.3 1.2 0 4.8 2.2 0 5.0 3.1 0 3.0 0 0.2 4.3 3.0 7.9 4.9 2.8 2.8 2.8 3.5 3.2 3.0 2.7 2.7	0 2.7 2.8 5.0 1.3 1.2 0 4.8 2.2 0 3.0 0 0.2 0 2.8 7.9 0 2.8 2.8 3.6 3.0 3.2 2.9 2.9 2.9	0 2.7 2.8 5.0 1.3 1.2 0 4.8 2.2 0 4.8 3.1 0 0 0 2.8 7.9 0.1 2.8 2.8 3.6 3.1 3.2 2.9 2.9
IC7 ① ② ③ ④ ⑥	0 3.5 3.3 4.9 5.0 4.2	0 3.6 3.4 4.9 5.0 4.2	0 0.2 3.2 0 0 4.2	0 0.2 3.2 0 5.0 4.2
IC8 ① ② ③ ④ ⑤ ⑥ ⑦ ⑥ ③	0 8.1 4.3 0 4.9 0 0 0	0 8.1 4.3 0 4.9 0 0 4.9 5.0	8.0 8.1 0.1 0 0 5.0 5.0 0	8.0 8.1 0.1 0 5.0 5.0 5.0

IC NO.	SP PLAY	LP PLAY	SP PLAY	LP PFAY
IC9 ① ② ③ ④ ⑤ ⑥ ⑦ ⑥ ⑥ ①	5.0 0 5.0 3.5 0 2.8 2.2 0 0	4.7 0 5.0 3.5 0 2.9 2.3 4.8 0 2.7	4.9 0 5.0 0.1 0 2.8 2.1 0 0 2.6	5.0 0 5.0 0.1 0 2.8 2.1 0 0 2.6
1C10 (10 (10 (10 (10 (10 (10 (10 (10 (10 (2.7 0 0 5.0 0 3.0 2.6 2.7 0.1 4.9 0 0 0.4 3.9 0 2.9 3.2 0 0 0 0 1.3 2.8 2.0 2.5 3.5	2.7 0 0 0 5.0 0 3.0 2.6 2.7 0.2 4.9 0 0.3 0.4 3.9 0 2.9 3.2 0 0 0 0 1.3 2.8 2.5 2.5 3.5	2.4 0 0 5.0 0 2.6 2.7 0 0.3 0 0.4 3.9 0 2.9 2.7 0 0 0 1.3 2.8 2.6 2.6 0	2.4 0 0 0 5.0 0 0 2.8 2.7 0.2 0 0 0 0.4 3.9 0 2.9 2.7 0 0 0 0 1.3 2.8 2.3 2.6 0.1
IC11 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧	2.6 1.0 0 0 4.9 1.2 0 2.6	2.6 2.2 0 0 4.9 1.2 0 2.6	2.8 2.2 0 0 5.0 1.4 0 2.8	2.8 2.2 0 0 5,0 1.4 0 2.8

TR NO.		SP PLAY			LP PLAY			SP REC			LP REC			
	E	C	В	E	C	В	Œ	C	В	E	C	В		
Q1	0	2.7	1.9	0	2.5	2.3	(2.4	2.3	0	2.6	2.0		
Q2	0	1.5	0.4	0	1.5	0.4	0	1.5	0.4	0	1.5	0.4		
Q3	1.4	3.2	2.6	1.4	3.2	2.0	0	3.2	2.0	1.4	3.2	2.0		
Q4	2.6	4.9	3.2	2.6	4.9	0	2.6	4.9	3.2	2.6	5.0	3.2		
Q5	0	3.3	0.4	0	3.3	0.4	0	3.3	0.4	0	3.3	0.4		
Q6	0	0.1	3.3	0	0.1	3.3	0	0.1	3.3	0	0.1	3.3		
Q7	0	0.1	0.1	0	0	4.8	0	0.1	0.1	0	0	4.9		
Q8	0	0	4.6	0	0.1	0.1	0	0	4.6	0	0.2	0.4		
Q9	1.8	4.8	2.3	1.7	4.8	2.3	1.7	4.8	2.3	1.8	4.8	2.3		
010	_	_	_	_	_	_	_	_	_	_	_			
011	0	0	0.1	0.3	0.3	1.0	0	0	0.1	0	0	0.1		
Q14	2.4	3.1	5.0	2.4	3.1	0	1.9	2.7	5.0	2.0	2.7	5.0		

CONNECTORS

CN NO.	SP PLAY	LP PLAY	SP REC	LP REC
CN1 ① ②	0	0 0.7	0	0 0
CN2 ① ②	0 0	0 0	0 0	0 0
CN3 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ①	0 5.1 0 4.9 2.7 0 0 0.4 8.0	0 5.1 0 4.9 4.3 0 0 0.4 8.0	0 5.1 5.0 0 0 0 0 0.4 8.0	0 5.1 5.0 0 0 0 0 0.4 8.0
CN4 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ①	3.0 0 0 0 0 0 4.6 2.4 0 3.0	3.0 0 0 0 0 0 0 1.9 0 3.1	2.9 0 0 5.0 5.0 4.6 2.4 0 2.9	2.9 0 0 5.0 5.0 0.4 1.7 0 3.0
CN5 ① ② ③ ④ ④ ⑤ ⑥ ⑦ ③ ④ ⑥ ① ① ① ②	0 2.3 2.6 0 0 5.6 0 5.0 2.4 4.2 2.5 3.2	0 2.3 2.6 0 0 5.6 0 5.0 2.4 4.2 2.5 3.2	0 2.4 2.6 0 0 5.5 4.1 5.0 2.0 4.2 2.6 3.2	0 2.4 2.4 0 0 5.5 4.1 0 2.0 4.2 2.6 3.2

4.5.7 0 3 OPERATION

■ INTEGRATED CIRCUITS

IC NO.	STOP	IC NO.	STOP
C1 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ② ③ ④ ⑥ ⑥	4.9 4.9 3.7 3.6 3.7 4.8 0 0 0 3.6 0 0 0 0 4.9 5.0	IC2 ① ② ③ ④ ⑤ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥	4.9 4.9 4.9 4.9 4.9 0 0 0 4.9 5.0 4.9 4.9 4.9

Note: Voltage at every part of 03 OPERATION board was measured with a digital voltmeter (DC range).

TRANSISTOR

MODE	STOP									
TR NO.	E	C	В							
Q1	0	0	4.8							
Q2										
Q3	0	0	0							
Q4	0	0	0							
Q5	0	4.9	0							
Q6			-							
Q7	5.1	0	4.6							
Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8	0	8.0	0							

CONNECTORS

CN No.	STOP	CN NO.	STOP	CN No.	STOP
CN1 ① ② ③ ④ ⑤ ⑥ ⑦ ⑥ ⑨ ①	0 0 8.0 5.1 5.1 0 0 0 4.7	CN2 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ① ② ⑤ ④ ⑤ ⑥	4.9 4.8 0 4.9 0 0 0 0 0 0 4.9 5.1 5.1 5.1 4.6	CN3 ① ② ③ ④ ⑥ ⑥ ⑦ ⑥ ⑨ ⑩	0 3.1 0 4.9 3.1 3.1 0 3.1 0

4.5.8 0 5 MDA

■ INTEGRATED CIRCUITS

IC NO.	STOP	SP PLAY
IC251 ①	1.0	1.0
2	2.4	2.4
2346673999999999999	2.3	2.4
4	3.7	1.3
5	3.8	3.7
6	2.0	1.9
7	2.0	1.9
8	2.0	1.9
9	0	2.4
10	5.1 2.0	5.0
0	0	1.9
12	0	0
10	0.8	0 1
(15)	1.2	2.5
06	0	2.5
17	0	0
① ① ①	0	2.4
19	3.0	6.4
20	0	2.5
21)	0	0.9
22	3.5	1.4
23	5.0	4.1
24	0.9	1.0
Begliabam lists for		termination of the synchronian
		Personney (single affiliation)
		ACTRIBUART BEATON
		THE PLANE

CONNECTORS

CN NO.	STOP	SP PLAY
	2.3 1.0 2.3 0.2 0.9 3.8 4.4 3.7 0 0 0 2.0 2.0	2.3 1.0 2.3 0.3 1.0 3.7 4.4 3.7 2.6 2.5 2.4 1.9

4.5.9 1 2 SKEW JUMP

■ INTEGRATED CIRCUITS

IC NO. MODE	SP PLAY	LP PLAY	SP REC	LP REC	STOP
IC1 (1) (2) (3) (4) (5) (6) (7) (8) (9) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	2.0 2.9 3.4 0 3.1 2.4 0 0 0 0 3.4 3.2 3.2 4.8 4.8 0 2.8 4.1 2.4 2.4 2.4	2.0 3.0 3.4 0 3.1 2.4 0 0 0 3.2 3.4 3.2 0 4.8 4.8 4.8 4.8 4.1 2.4 2.4 2.4 0.8	2.0 0.1 3.4 4.8 3.1 2.4 0 2.5 0 3.2 3.4 3.2 3.2 4.8 4.8 1.5 4.8 4.1 2.4 0 0 0 0 0 0 0 0 0 0 0 0 0	2.0 0 0 0 3.1 2.4 0 0 0 3.2 3.4 3.2 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8	2.0 3.1 3.4 0 3.1 2.4 0 0.1 0 3.2 3.4 3.2 3.2 4.8 4.8 4.8 4.8 4.8 0.1 2.5 2.4 0.8
IC2 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧	8.9	8.9	8.9	8.9	2.8
	0	0	0	0	2.2
	4.9	4.9	5.0	5.0	0
	3.3	3.3	3.3	3.3	0
	3.0	3.0	3.1	3.1	2.8
	0	2.3	2.3	2.3	0
	1.6	1.6	1.6	1.6	1.4
	4.8	4.8	4.8	4.8	5.0
IC3 ① ② ③ ④ ⑤ ⑥ ⑦	2.6	2.6	2.6	2.6	2.6
	2.2	1.7	1.6	1.6	1.6
	3.2	3.1	3.2	3.2	3.2
	0	0	0	0	0
	3.1	3.1	3.1	3.1	3.2
	4.9	4.9	4.9	4.9	5.0
	3.5	3.5	3.5	3.5	3.5

Note: Voltage at every part of 12 SKEW JUMP board was measured with a digital voltmeter (DC range) with the following input signals:

- Color bars in REC mode
 In PB mode, playback of the alignment tapes of MH-C2 (color bars) segment in SP mode) and CH-C5L (in LP mode)

TRANSISTORS

TR NO.	SP PLAY		L	LP PLAY		SP REC			LP REC			STOP			
	E	C	В	E	C	В	E	C	В	E	C	В	E	C	В
Q1	1.7	4.8	2.3	1.7	4.8	2.3	1.8	4.8	2.4	1.8	4.8	2.4	1.8	4.8	2.4
Q2	2.8	4.8	3.4	2.8	4.8	3.4	2.7	0	3.4	2.7	4.8	3.4	2.8	4.8	3.4
Q3	1.0	3.9	1.6	1.0	3.8	1.6	1.0	3.9	1.6	1.0	3.9	1.6	1.0	3.8	1.6
Q4	3.2	4.8	3.8	3.2	4.8	3.8	3.2	4.8	3.9	3.2	4.8	3.9	3.2	4.8	3.5
Q5	5.6	8.9	6.2	5.6	8.9	6.2	5.6	8.9	6.2	5.6	8.9	6.2	5.6	8.9	6.
Q6	2.6	6.2	0	0.4	6.2	3.4	2.7	6.2	3.3	2.7	6.2	3.3	2.7	6.7	3.
Q7	6.1	3.4	5.5	6.1	3.3	5.5	6.1	3.3	5.5	6.1	3.3	5.5	6.1	3.3	5.
Q8	2.7	8.9	3.3	2.7	8.9	3.2	2.5	8.9	3.3	2.6	8.9	3.3	2.7	8.9	3.
Q9	4.1	3.3	4.7	4.1	8.9	4.7	4.1	0	4.7	4.1	8.9	4.7	4.1	8.9	4.
Q10	1.8	2.0	2.4	1.7	2.0	2.4	1.3	2.8	2.0	1.3	2.8	2.0	1.4	2.8	2.0
011	0.6	0	0	0	0	0.6	0	0	0.6	0	0	0.6	0	0	0.
012	1.7	3.8	2.1	1.7	3.8	2.3	1.7	3.8	2.3	1.7	3.8	2.3	1.7	3.8	1.9
013	1.7	4.8	2.3	1.7	4.8	2.3	0	4.8	2.3	1.7	4.8	2.3	1.6	4.8	2.
014	0.8	4.8	1.4	0.8	4.8	1.4	0.8	4.8	1.4	0.8	4.8	1.4	0.8	4.8	1.

4.5.10 1 3 END ALARM

■ INTEGRATED CIRCUITS

IC NO. MODE	SP PLAY	LP PLAY	SP REC	LP REC	STOP
IC1 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑪ ① ② ③ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥	0 0 0 5.1 4.0 2.7 2.4 0 0 5.0 0 5.1 0	2.8 5.0 3.3 5.0 0 2.3 0 2.5 5.0 0 5.0 0	0 0 0 5.1 1.0 3.0 2.9 0 2.5 5.0 0 0 0 5.0	0 3.5 2.5 0 2.3 0 2.5 0 2.5 5.0 0 0 0 0	5.0 5.0 2.1 0 2.8 3.0 2.6 0 0 5.0 0 0 5.0 0
IC2 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ① ① ③ ③ ⑥ ⑦ ⑧ ⑨ ① ① ② ③ ⑥ ① ② ③ ⑥ ① ② ③ ③ ⑥ ② ③ ③ ⑥ ② ③ ③ ③ ⑥ ② ③ ③ ③ ③ ③ ③	0 5.1 3.4 1.0 0 2.5 0 5.1 5.0 5.1 0 5.0 5.1 0	0 0 3.0 3.7 5.0 0 0 5.0 0 0 5.0 5.0	5.0 5.1 2.7 0 4.8 0 0 0 5.0 5.0 1.5 0 5.0	5.1 5.1 1.6 2.5 0 5.1 0 5.1 5.0 3.3 5.1 0 5.0 5.1	5.0 5.0 3.6 3.3 0 0 5.0 0 5.0 0 5.0 5.0
IC3 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑪ ⑬ ⑬ ⑭	0 0 5.1 5.0 0 5.0 0 0 0 5.1 5.1 5.0 5.1	0 0 5.0 5.0 0 5.0 0 0 0 0 0 0 5.0	0 0 0 0 5.1 0 0 0 5.1 0 0 0 0 5.1	0 0 5.1 4.8 0 4.8 0 0 5.1 0 0 5.1	0 0 5.1 5.0 5.1 5.0 0 0 5.1 0 0 5.1
IC4 ① ② ③ ④ ⑤ ⑥ ⑦ ⑥ ⑨ ⑩ ⑪ ⑪ ⑫ ⑬ ⑬ ⑭	0 2.8 5.1 3.9 4.3 0 0 0 5.1 5.1 5.1	0 2.2 5.0 1.4 0 0 0 0 0 0 3.5 0 0	0 2.7 5.0 4.1 0 0 0 0 5.1 0 5.1 5.1	0 2.3 5.1 1.4 3.3 0 0 0 0.1 0.5 0 5.1 5.1	0 2.1 5.1 3.4 4.8 0 0 0 2.2 5.1 5.1

IC NO. MODE	SP PLAY	LP PLAY	SP REC	LP REC	STOP
1C5 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑪ ⑪ ⑫ ⑬ ⑭ ⑪ ⑯	0 5.1 0 0 5.1 5.1 5.1 0 0 0 5.1 5.1 0 0 5.1 5.1	0 5.0 5.0 0 5.0 5.0 0 0 5.0 5.0 0 5.0 0 5.0 5.	0 5.1 5.1 0 5.1 5.1 0 0 0 5.1 5.1 0 1.9 5.1 5.1	0 5.1 5.1 0 5.1 5.1 0 0 0 0 5.1 0 0 5.1	0 0 0 0 5.1 0 0 0 0 5.1 5.1 0 0 5.1
1C6 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑤ ① ② ⑤ ④	0 0 5.1 0 0 5.1 0 0 0 0 5.1 0 0 0 5.1	0 0 5.0 3.3 5.0 0 0 5.0 0 5.0 0	0 0 5.1 0 4.2 5.1 0 0 0 0 0 4.3 5.1	0 0 5.1 5.1 5.1 0 0 0 5.1 0 1.0 5.1	0 0 5.1 5.1 5.1 0 0 5.1 0 5.1 0 0.6 5.1
IC7 ① ② ③ ④ ⑤ ⑥	0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 ·	0 · · · · · · · · · · · · · · · · · · ·

TRANSISTORS

TR NO.	E 5	SP PLAY		ı	LP PLAY		SP REC			LP REC			STOP		
	E	C	В	E	C	В	E	C	В	E	C	В	E	C	В
Q1 Q2 Q3	0	0	4.3	0	0	4.3	0	5.0	0.1	0	5.0	0.1	0	0	4.3
Q2	5.1	0	5.0	5.1	0	5.0	5.1	0	5.0	5.1	0	5.0	5.1	0	5.0
Q3	0	5.0	0.6	0	5.0	0.6	0	0	4.3	0	4.8	1.0	0	5.0	0.6

■ CONNECTORS

CN NO.	SP PLAY	LP PLAY	SP REC	LP REC	STOP
CN1 ①	5.1	5.1	5.1	5.1	5.1
2	5.1	5.1	5.1	5.1	5.1
3	5.0	5.0	5.0	5.0	5.0
4	4.3	4.3	0.1	0.1	4.3
5	4.6	. 0.1	4.6	0.4	0.1
6	0	5.0	0	5.0	0
7	5.1	5.0	5.1	0	0
8	0	0	0	0	0

Note: Voltage at every part of 13 END ALARM board was measured with a digital voltmeter (DC range) with the following input signals:
1) Color bars in REC mode
2) In PB mode, playback of the alignment tapes of MH-C2 (color bars segment in SP mode) and CH-C5L (in LP mode).

4.5.11 2 1 IMAGER (1)

■ INTEGRATED CIRCUITS

IC NO.	STOP	E-E
IC1 ① ② ③ ④ ⑤ ⑥ ⑦ ⑥ ⑥ ⑦ ⑥ ⑥ ⑦ ⑥ ⑥ ⑦ ⑥ ⑥ ⑦ ⑥ ⑥ ⑦ ⑥ ⑥ ⑦ ⑥ ⑥ ⑦ ⑥ ⑥ ⑦ ⑥ ⑥ ⑦ ⑥ ⑥ ⑦ ⑥ ⑥ ⑦ ⑦ ⑥ ⑥ ⑦ ⑦ ⑥ ⑥ ⑦ ⑦ ⑦ ⑦ ⑥ ⑥ ⑦	0.2	0
2	0	0
3	0	0
4	0	0
5	0.9	10.7
6	0	0 2.2
7	0.1	2.2
8	0.1	0.6
9	0	0
10	0	0
11)	0	0
12	0	0 0.1 0 -2.5
13	0	0
14	0	-2.5
15	0	0 0
16	0	0
17	0	0
(18)	0	-0.6
19	0	0
(B) (19) 20	0	18.2
100 (1)		
102 (1)	0.2	4.9
2	0.2	3.4
3	0	0
4	0	0
5	0.1	0
6	0	0
7	0.1	2.7
IC2 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	0	0
(9)	0	2.7
IC3 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧	0	0
2	0	1.0
3	0	1.0
4	0	1.2
5	0	1.2 3.7
6	0	9.1
7	0	3.0
(8)	0	0

TRANSISTORS

MODE		STOP			E-E	
TR NO	E	C	В	E	C	В
01	0	0	0	18.2	18.8	18.8
Q2	0	0	0	10.1	14.9	10.7
03	0	0	0	10.1	4.3	10.1
04	0	0.2	0	0	4.2	10.1 0.1 3.4
05	0	0.2	0.1	2.7	4.9	3.4
06	0	0	0.1	0.4	3.7	1.6
Q1 Q2 Q3 Q4 Q5 Q6 Q7	0	0.2	0.2	3.0	4.9	3.6

CONNECTORS

CN NO.	STOP	E-E
CN-11 ①	0	-8.0
	0	15.1
(3)	0	9.0
4	0.2	5.0
(5)	0	19.6
(2) (3) (4) (5) (6)	0	
CN-12 ①	0	2:4
2	0	0
AND SERVICE PROPERTY.		the same of the sa

4.5.12 2 2 IMAGER (2)

INTEGRATED CIRCUITS

IC NO. MODE	STOP	E-E	IC NO.	STOP	E-E
1C4 ① ② ③ ④ ⑤ ⑥ ⑦ ③ ⑨	0 0 0 0 0 0 0.2 0	- 4.3 - 0.1 0 0 - 6.8 5.0 0 0	IC5 89	0.2 0.2 0.1 0.1 0.1	5.0 5.0 0 0 0
000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 4.8 5.0 0 0 0 12.1 0 0 0 -6.8	IC7 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ① ① ② ③ ③ ③ ⑥ ⑥ ⑦ ⑧ ⑨ ① ② ③ ③ ③ ③ ⑥ ⑥ ③ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥	0.2 0.2 0 0.1 0.1 0 0 0 0 0 0	1.7 0 2.5 2.0 2.3 2.5 0 4.9 0 4.9 0 2.4
O 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.2 0.2 0.2 0.1 0.1 0.1 0.1 0 0.1 0 0 0 0 0 0 0 0 0 0 0 0 0	4.6 0 0 2.0 4.7 0 0 0 0 0 0 0 0 0 0 0 0 0	(F) (C8) (C8) (C9) (C9) (C9) (C9) (C9) (C9) (C9) (C9	0.1 0.2 0 0.1 0.2 0 0.2 0.2 0.2 0.2 0.2	1.7 1.7 1.8 1.7 1.7 3.2 0 0.1 1.6 0.1 1.6 5.0

TRANSISTORS

MODE	STOP		E-E			
TR NO.	E	C	В	E	C	В
Q8 Q9 Q11	0	0	0	-7.2	-8.0	-7.8
09	0	0	0	12.1	14.9	-7.8 12.7
011	0	0	0	-7.8	-7.2	-7.2

Note: Voltage at every part of 21 IMAGER (1), 22 IMAGER (2), 23 VIDEO, 24 E-E & IND, 26 CONTROL, 27 PAL SUB boards was measured with a digital voltmeter (DC range) with input signals supplied from a camera picking up the gray scale pattern.

■ CONNECTORS

CN NO.	STOP	E-E
CN-13①	0	0
2	0	0
3	0	0
4	0	0
(5)	0	4.5
6	0	5.0
(7)	.0	4.8
(8)	0	0
9	0	0
10	0	4.8
(i)	0	0
CN-13 ① ② ③ ④ ⑤ ⑥ ⑦ ⑦ ⑧ ⑨ ⑩ ① ①	0	0
CN-14① ② ③ ④	0	2.5
2	0	0
3	0	2.5
4	0	0

4.5.13 2 3 VIDEO

■ INTEGRATED CIRCUITS

IC NO. MODE	STOP	E-E	IC NO. MODE	STOP	E-E
IC1 () () () () () () () () () () () () ()	0 0.1 0.1 0.1 0 0 0.1 0.1 0.1 0.1 0.1	0 0 0 0 0 0 0 0 0 0 0 0 0	IC2 ① ② ③ ④ ⑤ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4.9 2.5 2.6 5.0 2.4 2.4 0 0.1 5.0 4.9 0 4.9
(5) 年度的 化二二二二二二二二二二二二二二二二二二二二二二二二二二二二二二二二二二二二	0 0.1 0.1 0 0 0.4 0.2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		1C3	0.4 0 0 0 0 0.4 0 0 0 0.6 0 0 0 0 0 0 0	1.6 0 0.9 2.9 4.9 2.8 0 0 1.2 0 0 0 0 0 0 0 0 0 0 0 0 0

Monr		
IC NO. MODE	STOP	E-E
IC5 ① ② ③ ④ ⑤ ⑥	0 0 0 0 0 0 0 0 0 0 0 0	9,0 1.6 4.7 0 0 0.1 3.1
00000000000000000000000000000000000000	0 0 0 0.8 0.3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1.7 2.4 2.2 1.9 1.9 0 2.7 0 2.0 2.0 2.0 2.0 2.1 2.4 2.0 2.1 4.9 0.1 0.4 2.8 2.2 2.1 2.5 0 0 0

IC NO.	STOP	E-E
IC6 33 35 86 87 88 89 40 40 40 40 40 40 40 40 40 40 40 40 40	0 0 0 0 0 0 0 0	4.9 1.7 2.1 1.8 3.3 3.1 1.9 1.8 0 1.8 1.8
1C7 ① ② ③ ④ ⑤ ⑥ ⑦ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥	0 0 0 0.8 0 0 0 0.5 0 0 0 0 0 0	2.6 1.4 2.1 2.6 3.0 0 3.0 2.7 3.8 2.4 2.2 9.0 2.9 4.9 1.4 3.4 0.9 4.1 3.5 0.7 4.6 2.7 1.4 2.2 2.2 2.2 2.5

TRANSISTORS

MODE		STOP			E-E	
TR NO.	E	C	В	E	C	В
Q1	0	0	0	2.1	5.0	2.4
Q2	0	0	0	2.1	5.0	2.4
Q3	0	0	0	2.4	4.9	2.4
Q4	0	0	0	1.5	3.8	1.8
Q5	0	0	0	3.7	4.9	3.8
Q6	0	0	0	3.1	4.9	3.6
Q7	0	0	0	1.3	0	0.6
Q8	0	0	0	1.3	0.3	0.7
Q9	0	0	0	1.9	1.3	0
Q10	0	0	0	1.3	0	0.7
Q11	0	0	0	2.4	4.9	3.0
Q12	0	0	0	1.4	4.9	2.2
Q13	0	0	0	1.0	4.0	0.5
Q14	0	0	0	1.7	0	1.0
Q15	0	0	0	2.3	4.9	3.0
Q16	0	0	0	1.5	4.9	2.2
Q17	0	0	0	1.5	4.1	2.2
Q18	0	0	0	3.4	4.9	4.0
Q19	0	0	0	1.3	4.9	2.0
Q20	0	0	0	2.5	4.9	3.2
Q21	0	0	0	2.6	4.9	3.2
Q22	0	0	0	1.6	4.9	2.2
Q23	-	-	-	-	-	-
Q24	0	0	. 0	0.2	0.1	0.2
Q25	0	0	0	1.2	1.2	3.6
				Can Si		

■ CONNECTORS

IN No.	STOP	E-E
CN-V1 ① 2 3 4 6 6 7 8 9 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 4.8 0 0 4.8 5.0 4.5 0.5 0.2.7
CN-V2 ① ② ③ ④	0 0 0	0 2.5 0 2.2
CN-V3 ① ②	0	0 2.9

CN No.	STOP	E-E
CN-V4 ① ② ③ ④ ④ ⑥ ⑥ ⑦ ⑧ ⑨ ⑩	0 0 0 0 7.6 0 0 0 0.4	0.5 0 0 4.5 7.5 0 0 1.2 3.4 1.1
CN-V5 ① ② ③ ④	0 0 0	0 2.1 2.1 0
CN-V6 ① ② ③ ④ ④ ⑤ ⑥ ⑦ ⑥ ⑥ ⑨ ⑥ ⑥	0 0 0 2.4 0 0 0 0 0	3.6 3.4 9.0 2.2 5.0 3.4 1.9 1.9 2.7

4.5.14 2 4 E-E & IND

■ INTEGRATED CIRCUITS

IC NO.	STOP	E-E	IC NO.	STOP	E-E
IC1 ①	0	0	IC1 40	5.1	5.1
2	0	0	40	0	0
3	0.9	4.6	42	0	4.9
4	0	4.8	43	0	0
(4) (5) (6)	0	4.5	44	0	0
6	0	4.5			
(7) (8) (9)	4.6	2.6	IC2 ①	0	0
8	4.6	2.7	2	0	3.1
9	4.6	4.2	3	0.1	2.2
10	4.6	3.5	4	0	2.6
11)	4.6	4.2	5	0.2	3.1
① ② ③	0	0	6	0.2	1.0
(13)	4.6	4.3	7	0	1.0
14	0	0	(6) (7) (8)	.0	2.6
(15)	1.1.	4.7	9	0	2.7
16 16 17 18	0	0	10	0	2.7
17	4.6	4.3	10 00	0	0
(18)	0	0	12	0	2.6
(19)	0	4.8	13	0	4.9
(19 20 21)	0	0	19	0	2.6
(21)	0	0	15	0	3.1
22 23	0.9	4.3	16	0	0
23	4.6	4.2	1	0	2.9
24 25	4.6	4.2	18	0	2.3
(25)	4.6	4.2	19	0	0
26 27	4.6	4.3	20	0	2.5
28	4.6	4.2	20	. 0	3.4
29	0	0	22	0	3.6
20	0	0	23	0	0
30 31	0	0	24	0	3.2
32	0	0	25	0	0.6
(33)	3.7	3.7	26	0	2.9
34	0	0	27	0	0
33 34 35 36	4.1	4.1	28	0	2.4
26	0	0			5.0
37	0	0	IC3 ①	6.8	6.7
38	San Park Control of the Control	0		0.6	1.1
38 39	5.1	5.1	2 3	1.6	1.6
•	5.0	5.1		1.0	1.0

IC NO.	STOP	E-E
IC3 4	8.0	8.0
5	0	2.5
6	0	2.6
7	0	0.6
8	1.7	4.3
9	0	2.9
10	0	2.9
11)	. 0	0
12	4.0	4.0
13	4.0	4.0
14)	6.2	3.5
IC4 ①	4.8	4.8
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0
8	0	0
		0

IC NO. MODE	STOP	E-E
IC5 ①	0	0.5
2	0	4.5
3	0	0
4	0	4.8
(5)	0	1.2
6	0	3.8
7	0	0
8	0	0
9	0.9	5.0
10	0	4.9
11)	0	0
12	0	5.0
13	0	0
14)	0	5.0
IC6 ①	10.1	10.0
2	0	0
3	5.1	5.0

■ TRANSISTORS

MODE	STOP			E-E		
TR NO.	E	C	В	E	C	В
Q1	4.6	4.6	0	4.3	4.6	5.0
Q2	_	-5.7	-	-		_
Q3	0	0	0	1.9	1.6	1.8
Q4	0	0	0	1.2	4.9	1.9
Q5	0	0	0	0	0	0.5
Q6	0	7.6	0.8	0	7.7	1.9
Q7	0	0	0	1.4	3.7	1.9
Q8	0	0	0	3.2	4.9	3.6
Q9	0	0	0	1.6	4.9	2.2
Q10	0	0	0	2.2	4.9	2.9
Q11	0	0	0.	5.0	2.7	1.7
Q12	0	0	0	2.7	0	2.1
Q13	0	0	0	1.9	2.1	0

CONNECTORS

CN No.	STOP	E-E
CN-E2 ① ② ③ ④	0 0 0 0	0 2.5 2.5 0
CN-E3 ① 2 3 4 6 6 6 7 8 9 10	0 0 0 2.4 0.2 0 0.1 0 2.8 0	4.0 3.5 9.0 2.2 5.0 3.4 0 0 2.6 0

CN No.	STOP	E-E
CN-E4 ① ② ③ ④ ⑥ ⑥ ⑦ ⑦ ⑧ ⑨ ① ①	0 0 0 0 7.6 0 0 0 0.5	0 0 0 4.5 0 0 0 3.4 0
CN-E5 ① ② ③ ④ ⑤ ⑥ ⑦	5.1 0 8.0 0 0 0	1.3 0 8.0 5.0 0 0

CN No.	STOP	E-E
CN-E6 ①	1.1	5.1
2	5.1	5.0
3	5.1	0
4	5.1	5.1
5	10.1	10.0
6	0	0
CN-E10 ①	0.2	2.8
2	1.7	4.5
3	0.2	2.8
4	6.3	3.7
CN-E11 ①	0	0
2	0	0
CN-E12 ①	0	0
2	0	0
3	0	0

CN No. MODE	STOP	E-E
CN-E13 ① ② ③	0 0 10.1	0 4.9 9.8
CN-E14 ① 2 3 4 5 6 7 8	0 0 8.0 10.4 0 0 7.9	0 5.0 8.0 10.2 9.0 0 7.8 4.9
CN-E15 ① ②	0	4.9

4.5.15 2 6 CONTROL

■ INTEGRATED CIRCUITS

IC NO. MODE	STOP	E-E
IC701 ①	0.6	3.4
2	0.3	1.5
3	0.3	1.7
4	0.3	1.6
5	0.3	3.5
6	0.5	1.8
. 7	0	0
8	0	1.4
9	0	1.6
10	0.6	0
11	0.7	0.5
12	1.4	1.3
13	2.1	0
14	1.5	1.4
15	2.1	1.7
16	2.7	2.7
17	2.9	2.8
18	4.3	1.6
19	5.1	5.1
20	7.9	7.8
21)	4.9	4.9
22	4.8	4.8
23	2.6	2.3
24	2.4	2.1
25	1.8	1.8
26	0	0
27	0	0
28	0.9	5.0
29	1.6	1.6
30	0	3.1
31)	0	0
32	0	3.0
33 34	0	3.0
35	-0.1	3.0
36	0	6.9
37	0	3.0
38	0	0
39	0	0
40	0	4.9
41)	0	5.0
42	0	5.0
43	0	0.9
44	-0.1	0.9
45	0	1.6
46	0	3.3
47	0.4	2.1
48	0.3	2.0
19	0.0	2.0

■ TRANSISTORS

MODE		STOP		1012	E-E	
TR NO.	E	C	В	E	C	В
Q701	0	0	0	1.5	7.2	2.1
Q701 Q702	0	0	0	8.3	9.0	9.0

CONNECTORS

CN NO.	STOP	E-E
CN-C1 ①	4.5	4.2
2	4.5	4.2
2 3 4 5 6 7 8 9 10 11 12 13 14	4.5	4.2
4	4.5	4.2
5	0	1.8
6	0	0
7	0	0
8	0	5.0
9	0	0
10	0.9	5.0
11)	0	9.0
12	7.9	7.8
13	0	5.0
14	2.7	2.8
15	2.4	2.1
CN-C3 ①	0	0
3	0	0
3	0	6.9 MO 12 MARTINA

4.5.16 2 8 REGULATOR

■ INTEGRATED CIRCUITS

IC NO.	STOP	E-E
IC1 ① ② ③	9.1 0 1.2	8.7 0 1.2
IC2 ① ② ③	0 0 0	-8.0 0 -9.6

TRANSISTOR

	STOP		E-E			
E	C	В	E	C	В	
10.1	9.4	8.0	9.7	9.0	9.0	
	E 10.1	E C	E C B	E C B E	E C B E C	

■ CONNECTORS

CN NO.	STOP	E-E
-	0	19.6
CN-R1 ① ② ③ ④ ⑤ ⑥	0	0
3	0	15.1
4	0	9.1
5	0	0
6	-0.4	-9.7
		W
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		The second secon
		Affi
CN-R2 ① ② ③ ④ ⑤ ⑥	0	-8.0
2	0	15.1
3	0	9.0 5.0
4	0.2	5.0
(5)	0	19.6
6	0	0 '
CN-R3 (1)	0	4.9
2	0.2	7.8
3	0	0
4	0	9.0
(5)	0	0
6	0	8.0
CN-R3 ① ② ③ ④ ④ ⑤ ⑥ ⑦ ⑦ ⑧	8.0	0
(8)	1.0	0

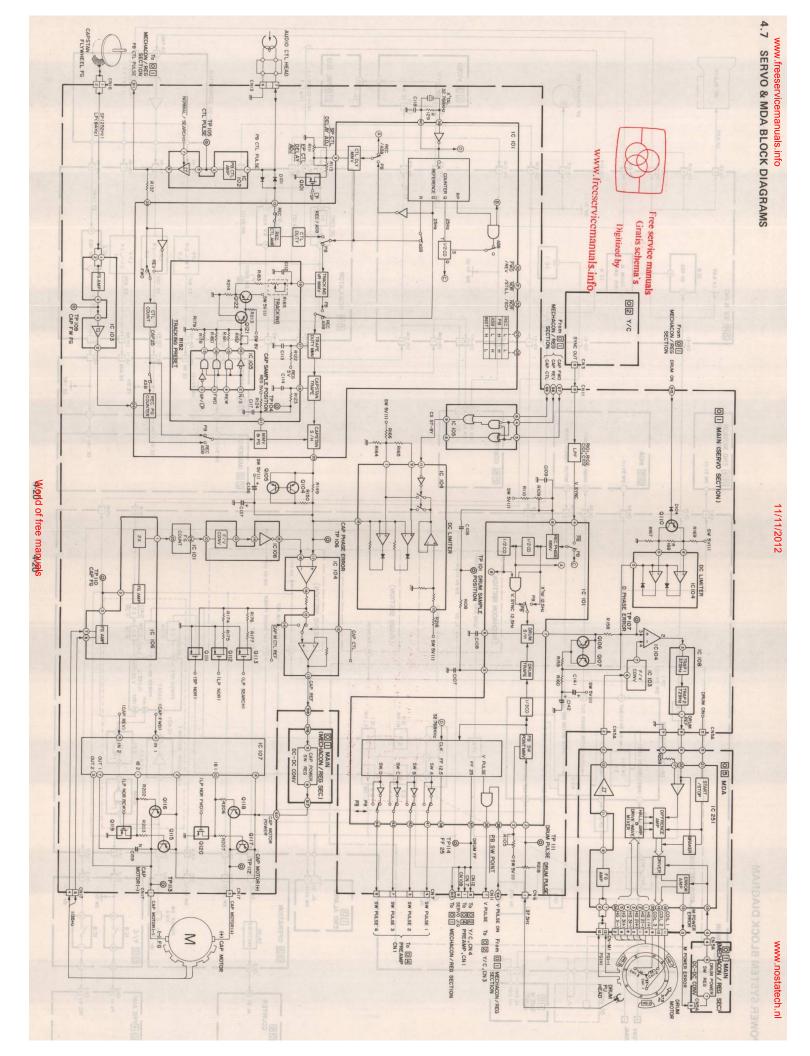
4.5.17 2 9 PAL SUB

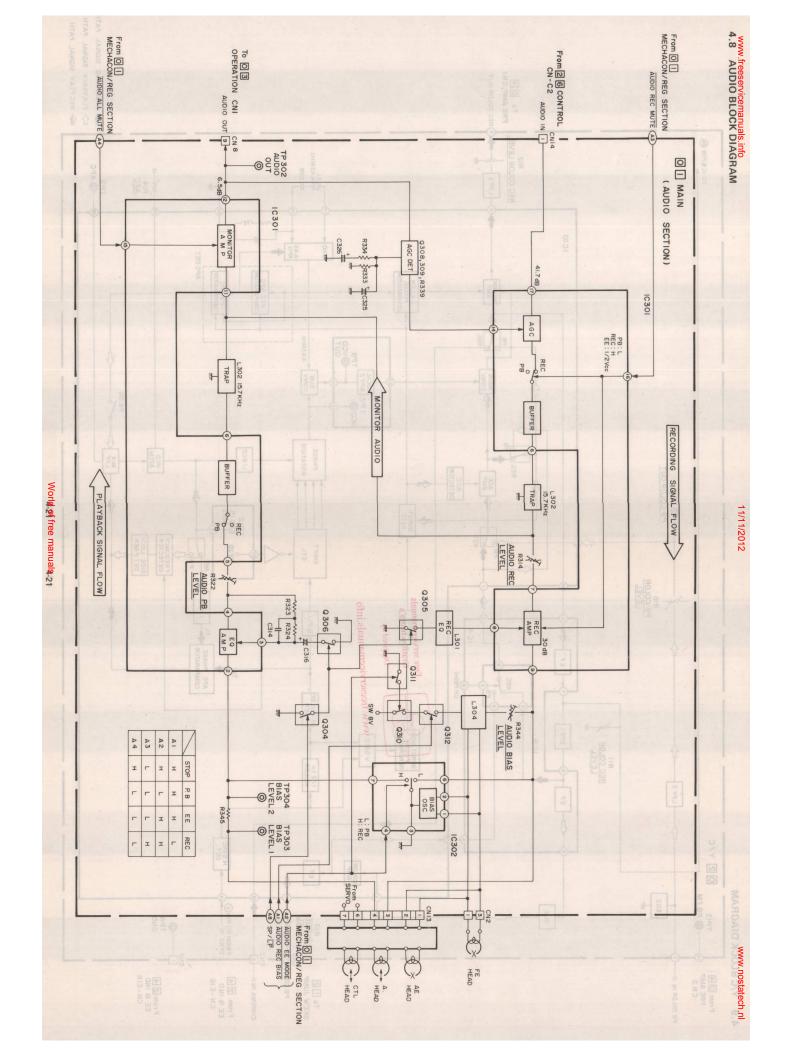
■ TRANSISTOR

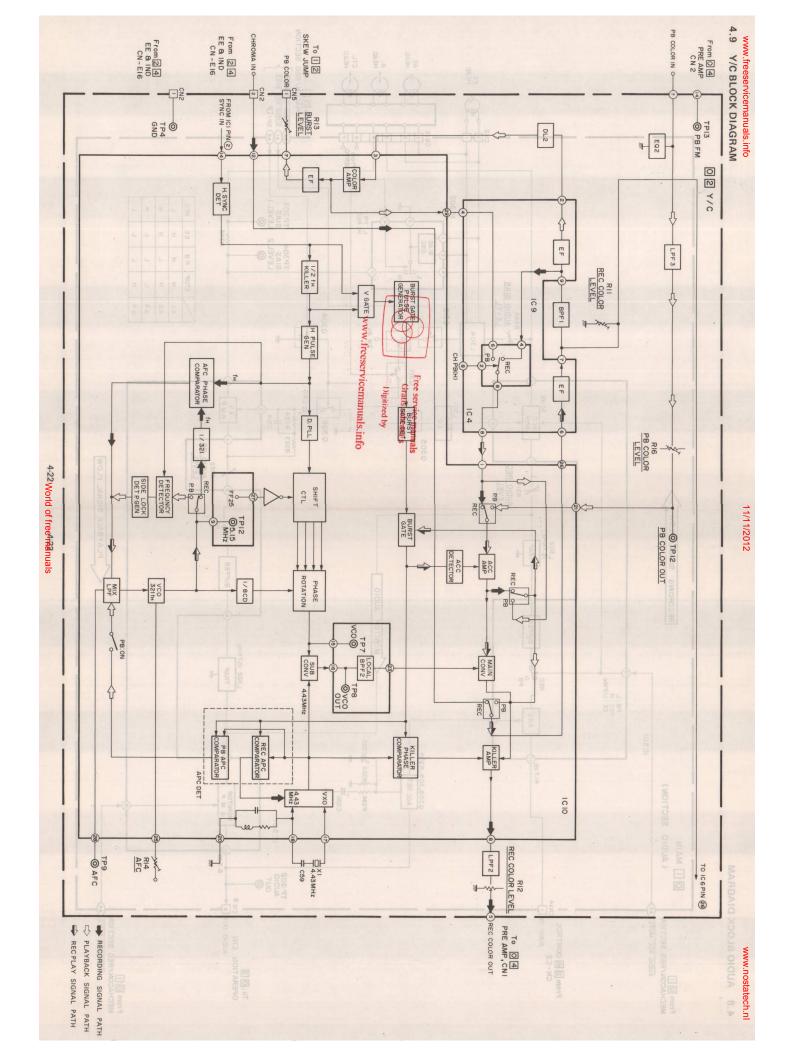
MODE	STOP					E-E				
TR NO.	E1	E2	C1	C2	В	E1	E2	C1	C2	В
Q1024	0.1	0	0	0	0	3.2	3.1	2.6	0	2.6

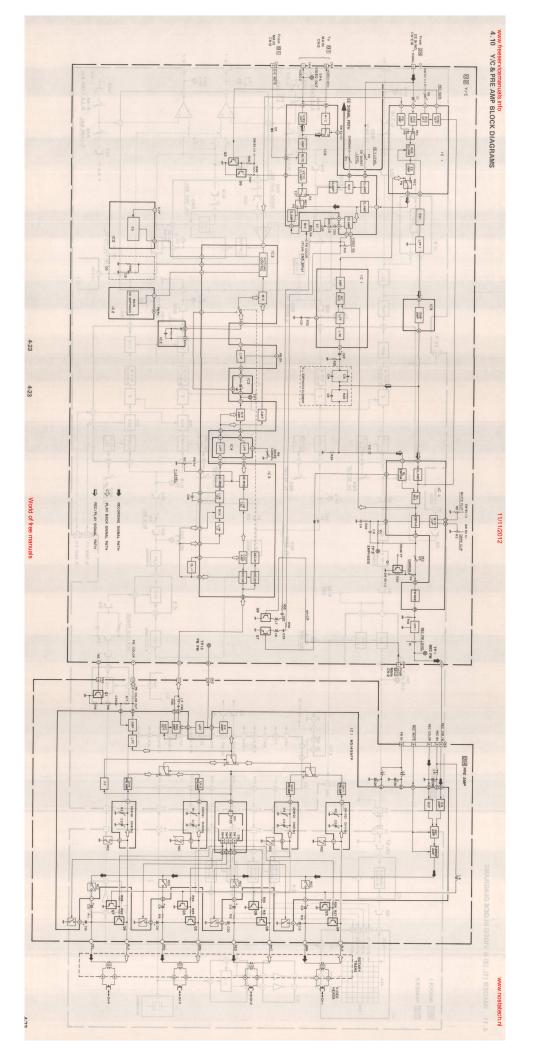
■ CONNECTOR

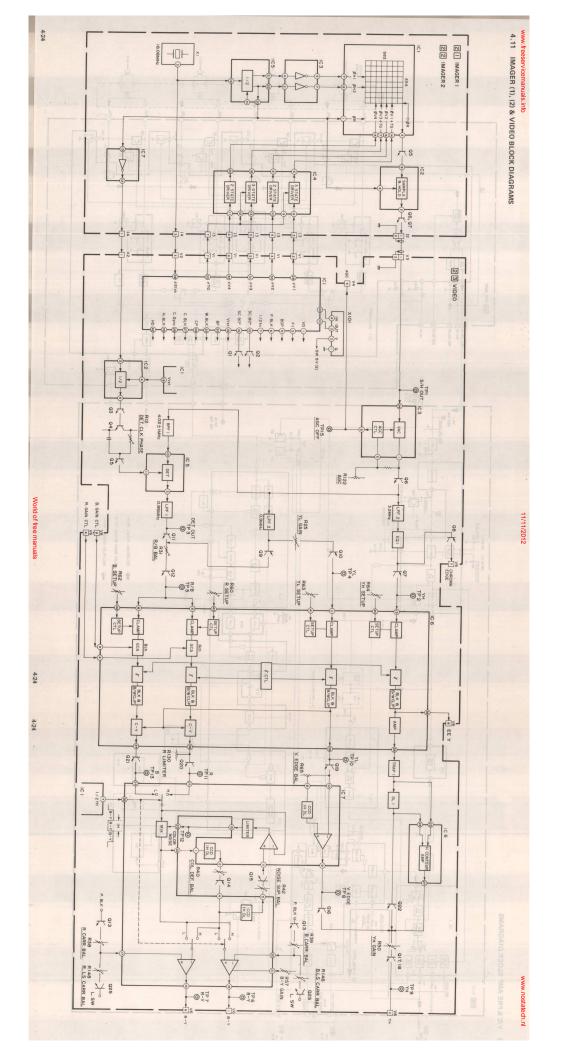
CN NO.	STOP	E-E
CN-P1 ①	0	3.1
2	0	0
3	0	0
4	0	0
4 5	0.2	4.9
6	0	0

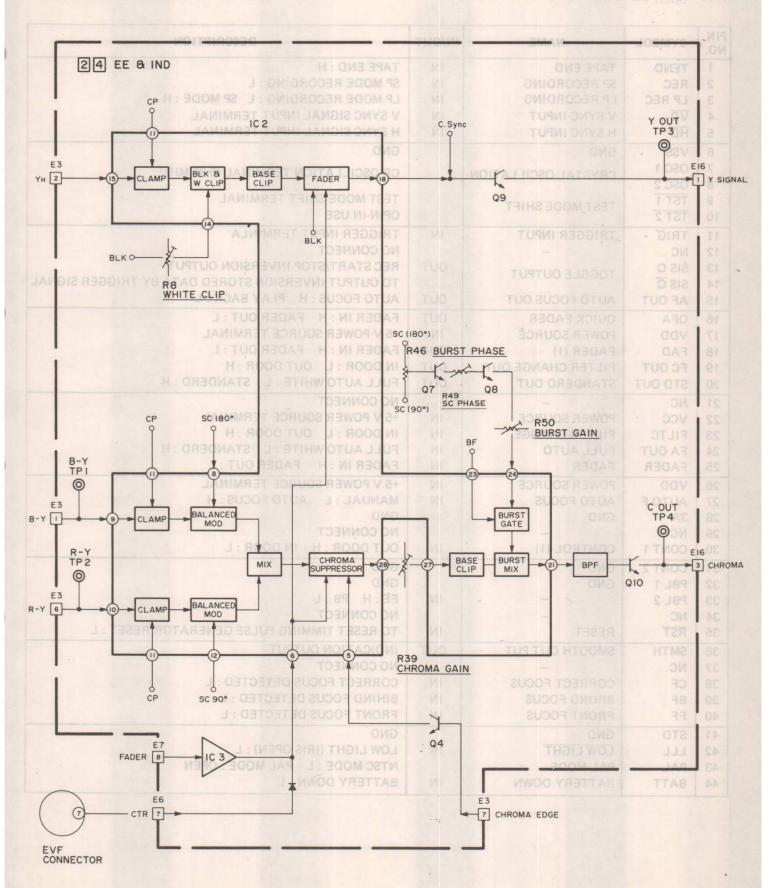






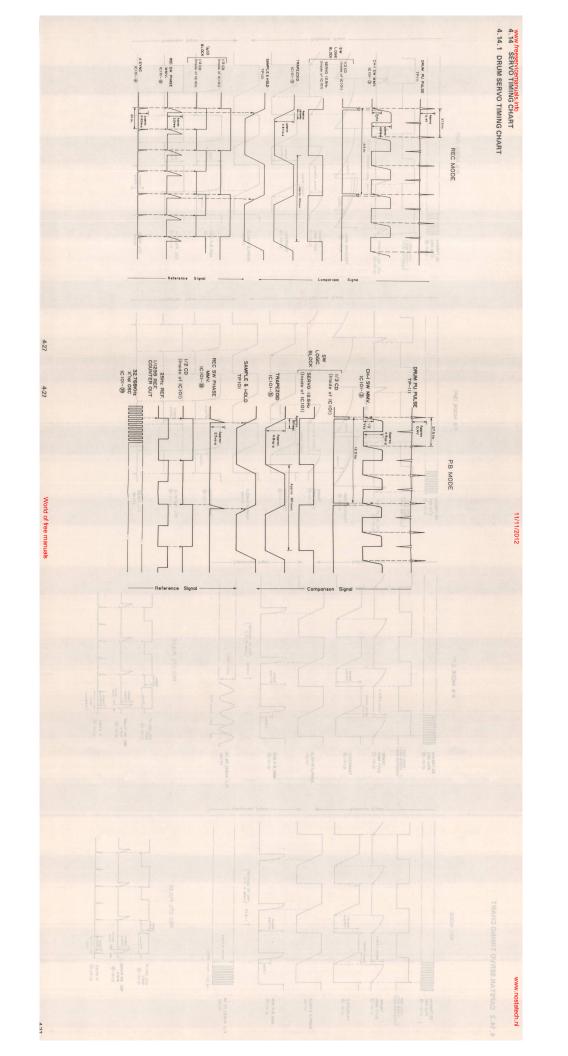


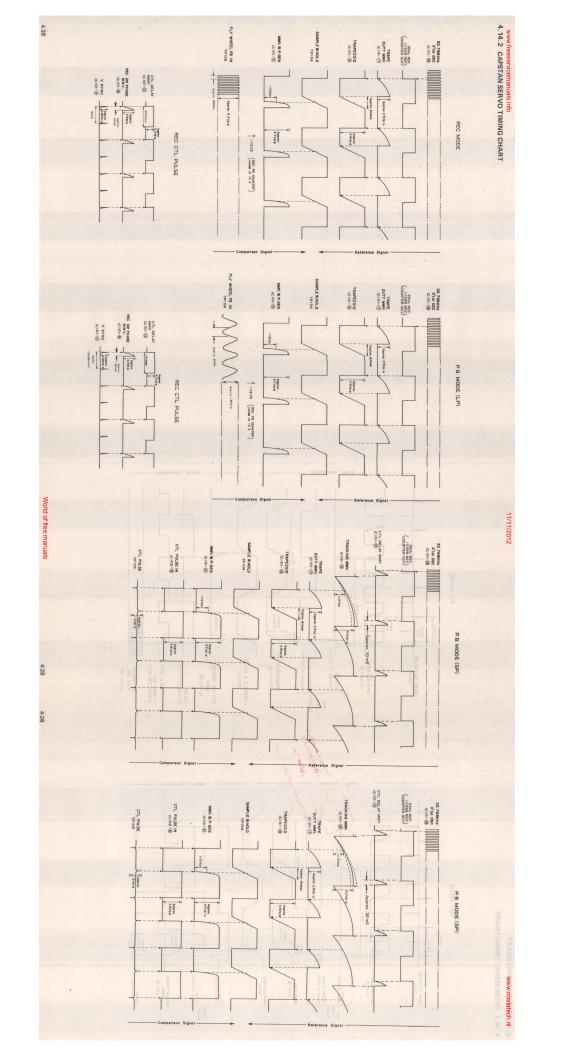


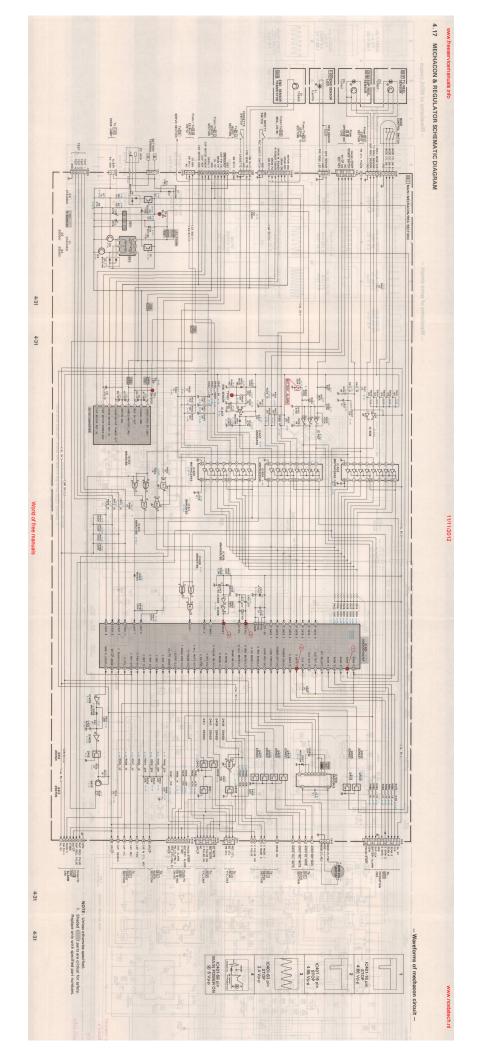


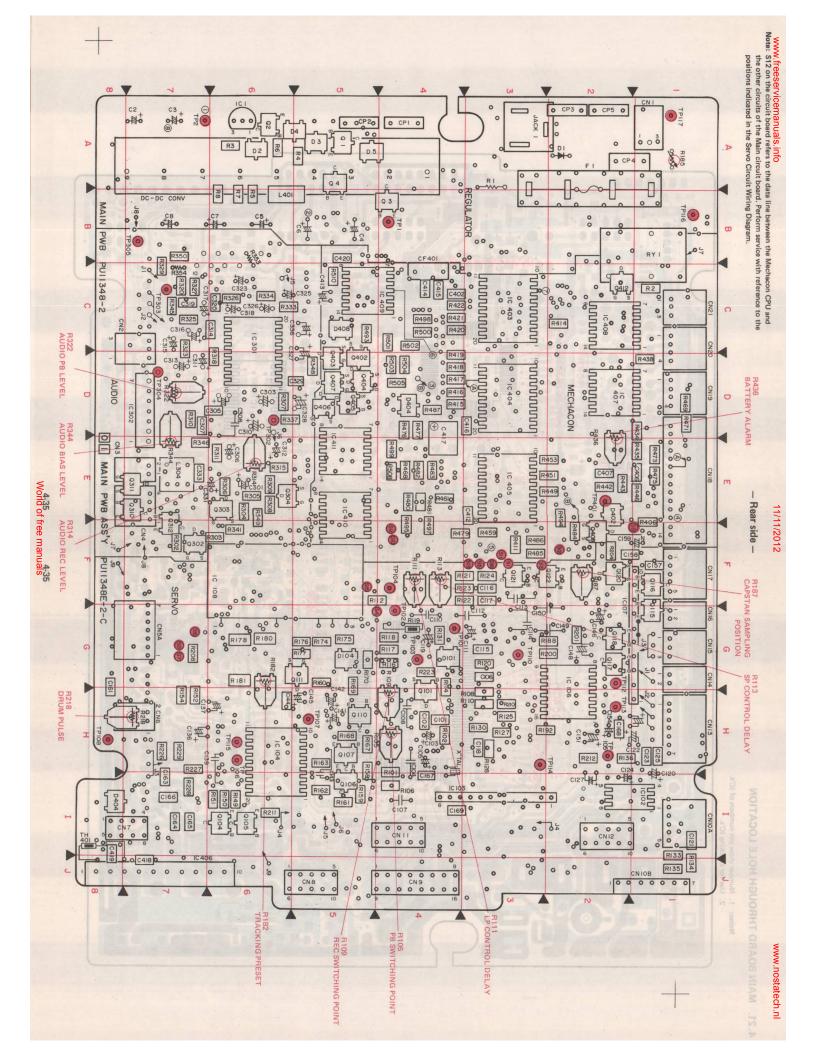
4.13 2 4 EE & IND IC1 SPECIFICATIONS

PIN NO.	SYMBOL	NAME	IN/OUT	DESCRIPTION
1	TEND	TAPE END	IN	TAPE END: H: GM B 34AT
2	REC	SP RECORDING	IN	SP MODE RECORDING : L
3	LP REC	LP RECORDING	IN	LP MODE RECORDING : L SP MODE : H
4	VD	V SYNC INPUT	IN	V SYNC SIGNAL INPUT TERMINAL
5	HD 9	H SYNC INPUT	OIN	H SYNC SIGNAL INPUT TERMINAL
6	VSS	GND		GND
7 8	OSC 1 OSC 2	CRYSTAL OSCILLATION		CR OSCILLATION TERMINAL (5.36 MHz)
9	TST 1 TST 2	TEST MODE SHIFT		TEST MODE SHIFT TERMINAL OPIN-IN USE
11	TRIG	TRIGGER INPUT	IN	TRIGGER INPUT TERMINLA
12	NC			NO CONNECT
13	SISQ	TOGGLE OUTPUT	OUT	REC START/STOP INVERSION OUTPUT
14	SIS Q	TOGGLE OUTPOT		TO OUTPUT INVERSION STORED DATA BY TRIGGER SIGNA
15	AF OUT	AUTO FOCUS OUT	OUT	AUTO FOCUS : H PLAY BACK : L
16	QFA	QUICK FADER	OUT	FADER IN : H FADER OUT : L
17	VDD	POWER SOURCE	INcom	+5 V POWER SOURCE TERMINAL
18	FAD	FADER (1)	OUT	FADER IN : H FADER OUT : L
19	FC OUT	FILTER CHANGE OUT	OUT	IN DOOR : L OUT DOOR : H
20	STD OUT	STANDERD OUT	OUT	FULL AUTO WHITE: L STANDERD: H
21	NC	- 80	001	NO CONNECT
22	VCC	POWER SOURCE	IN TOP	
23	FILTC	FILTER CHANGE	IN	+5 V POWER SOURCE TERMINAL
24	FA OUT	FULL AUTO		IN DOOR: L OUT DOOR: H
25	FADER	FADER	IN	FULL AUTO WHITE: L STANDERD: H
26	VDD	(0)	IN	FADER IN : H FADER OUT : L
		POWER SOURCE	IN	+5 V POWER SOURCE TERMINAL
27	AUTO F	AUTO FOCUS	IN	MANUAL: L AUTO FOCUS: H
8	3/4	GND		GND - DIDMA MAR
9	NC			NO CONNECT
0	CONT 1	CONTROL (1)	IN	OUT DOOR : H IN DOOR : L
1	CONT 2	GND	1-(3)-	GND
2	PBL 1	GND		GND
3	PBL 2	- 10.48	IN	EE:H PB:L
4	NC			NO CONNECT
5	RST	RESET	IN	TO RESET TIMMING PULSE GENERATOR RESET : L
6	SMTH	SMOOTH OUT PUT	OUT	INDICATION OUTPUT
7	NC	- 4	HROMA GA	NO CONNECT
8	CF	CORRECT FOCUS	IN	CORRECT FOCUS DETECTED : L
9	BF	BIHIND FOCUS	IN	BIHIND FOCUS DETECTED : L
0	FF	FRONT FOCUS	IN	FRONT FOCUS DETECTED : L
1	STD	GND	1	GND
2	LLL	LOW LIGHT	IN	LOW LIGHT (IRIS OPEN) : L
3	PAL	PAL MODE		
4	BATT	BATTERY DOWN	IN	NTSC MODE : L PAL MODE : OPEN
		, Ell I DOWN	114	BATTERY DOWN : L

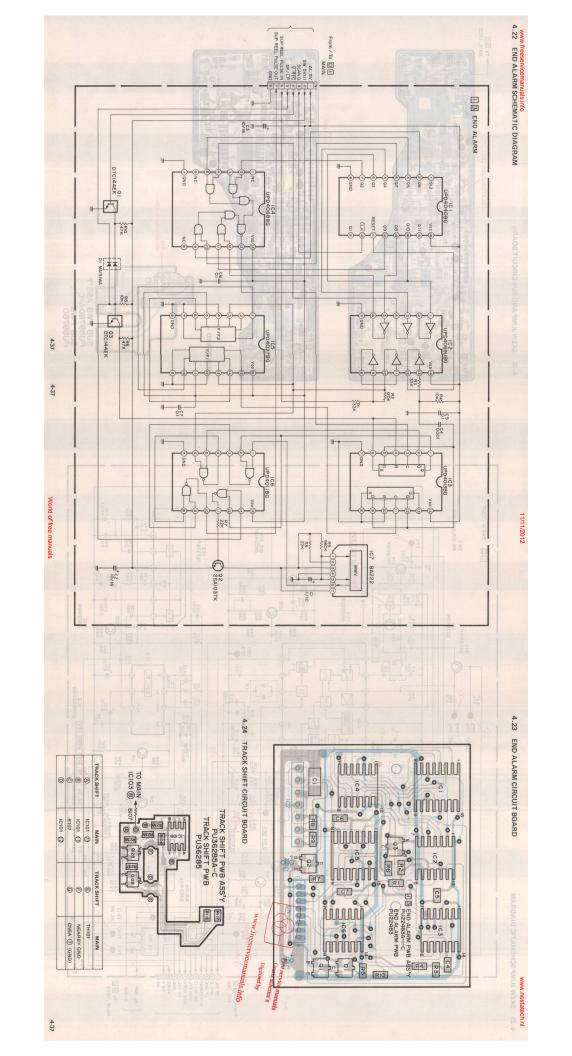


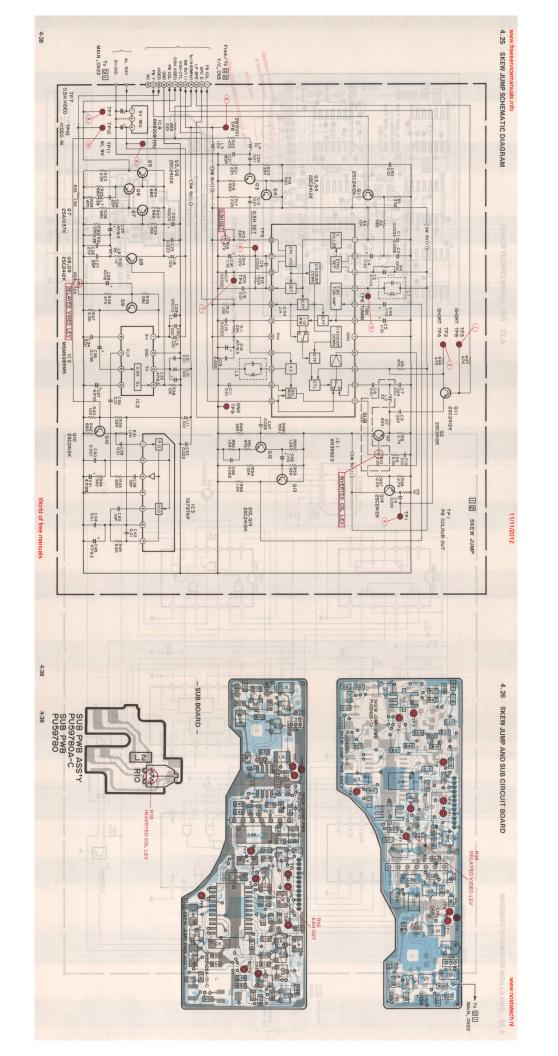


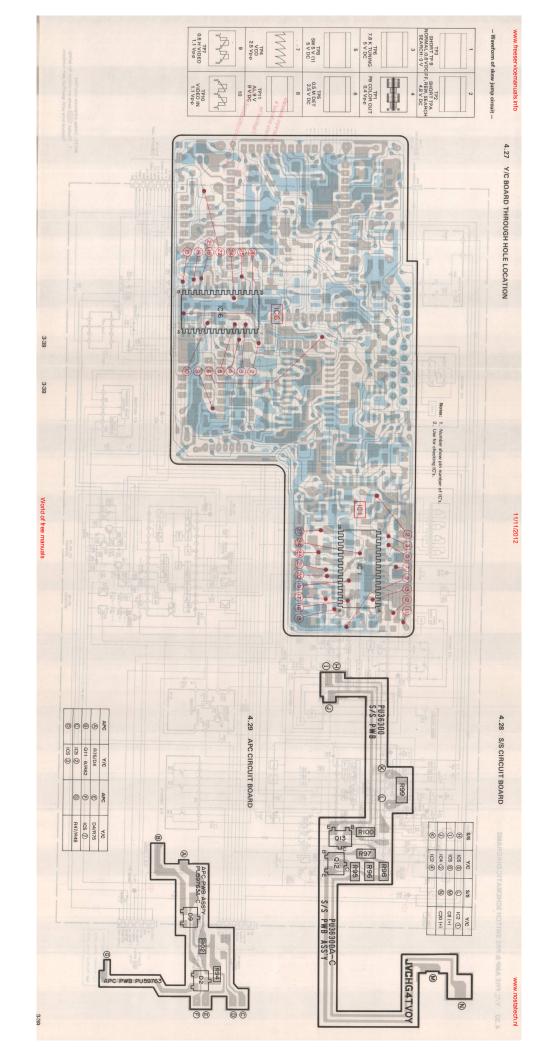


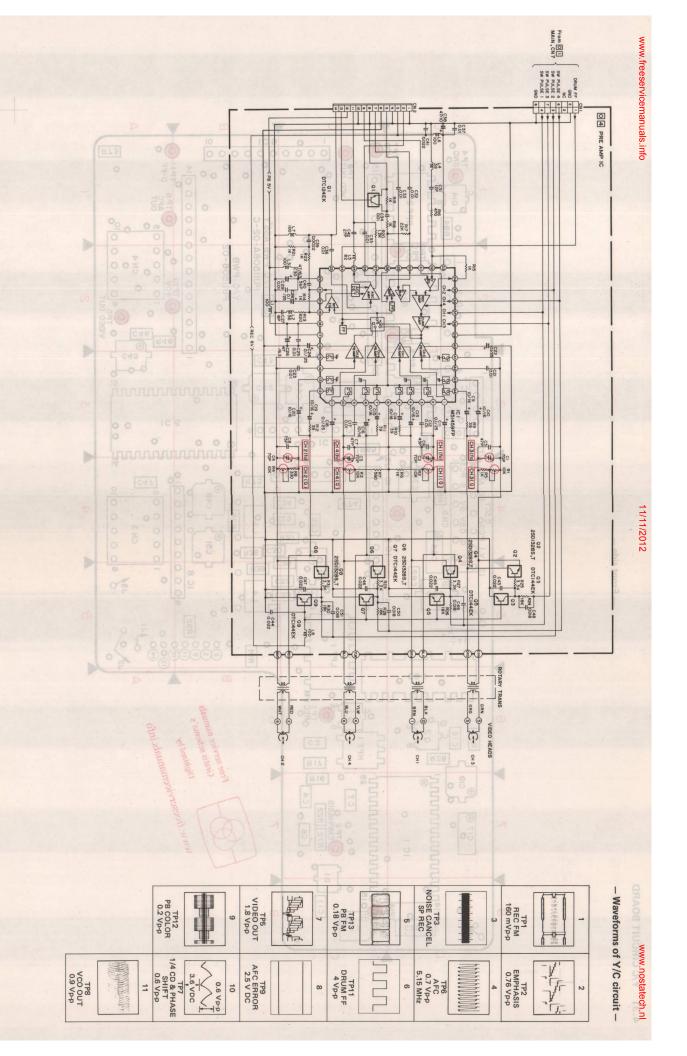


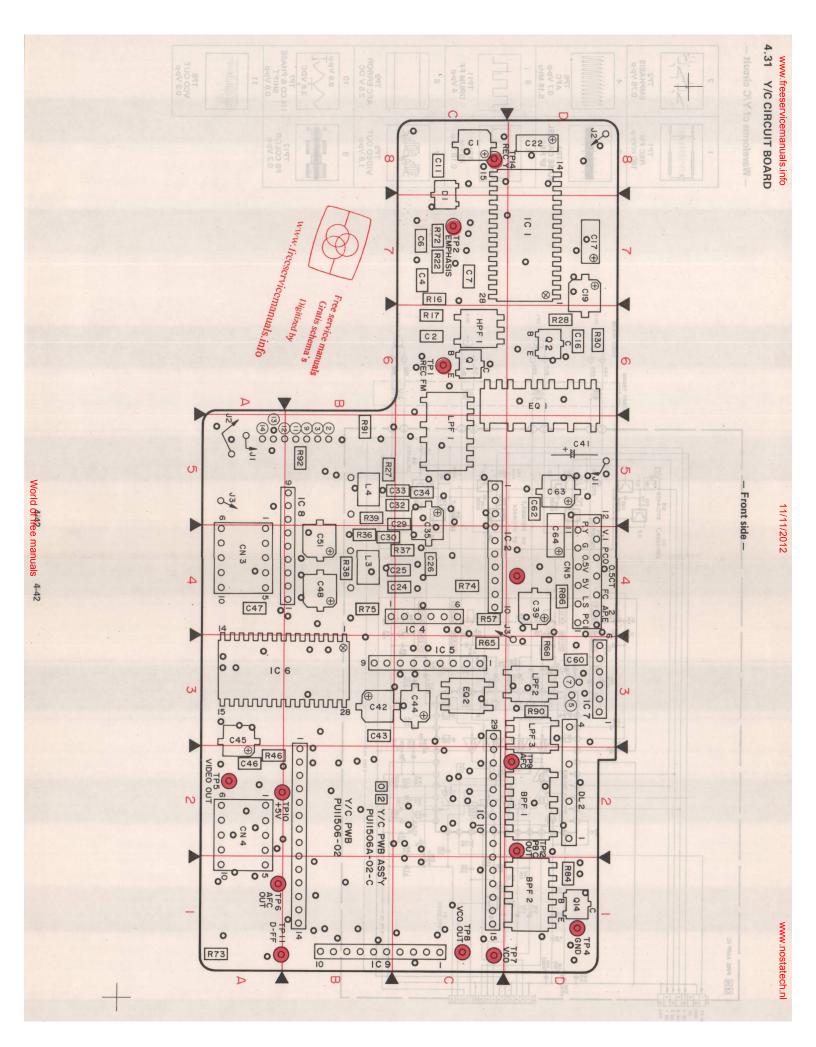
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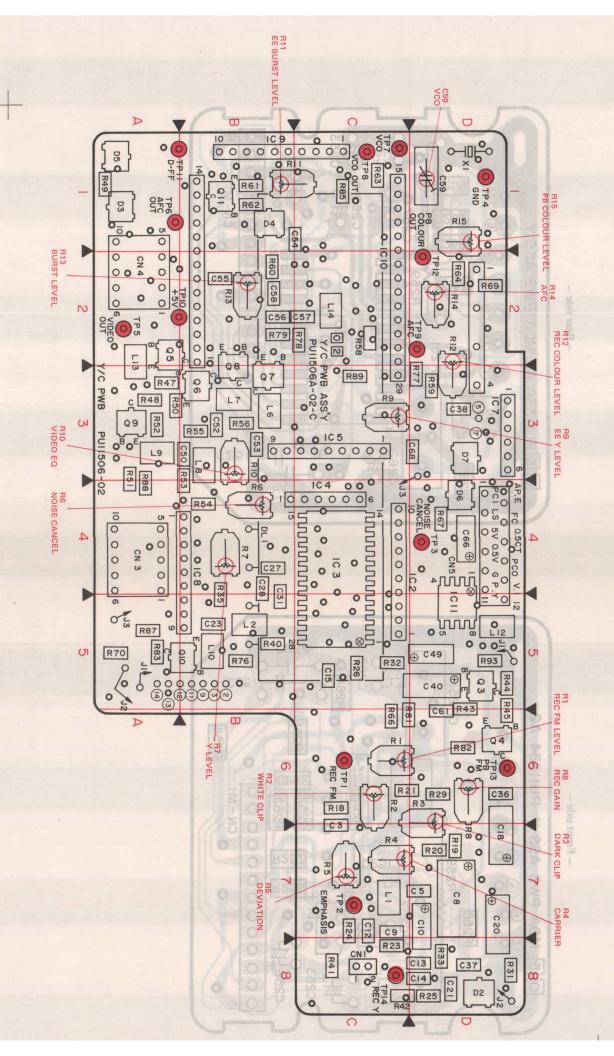


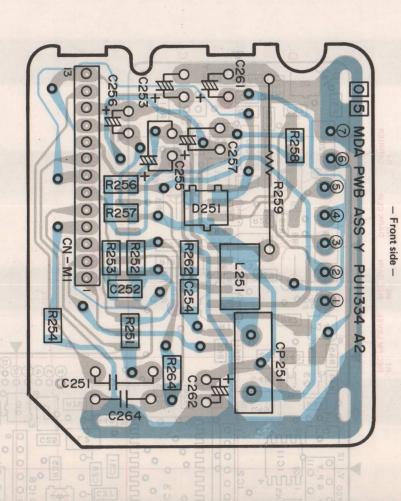




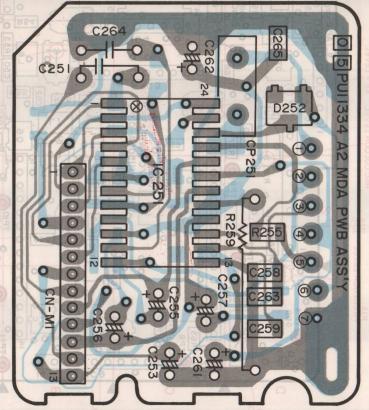


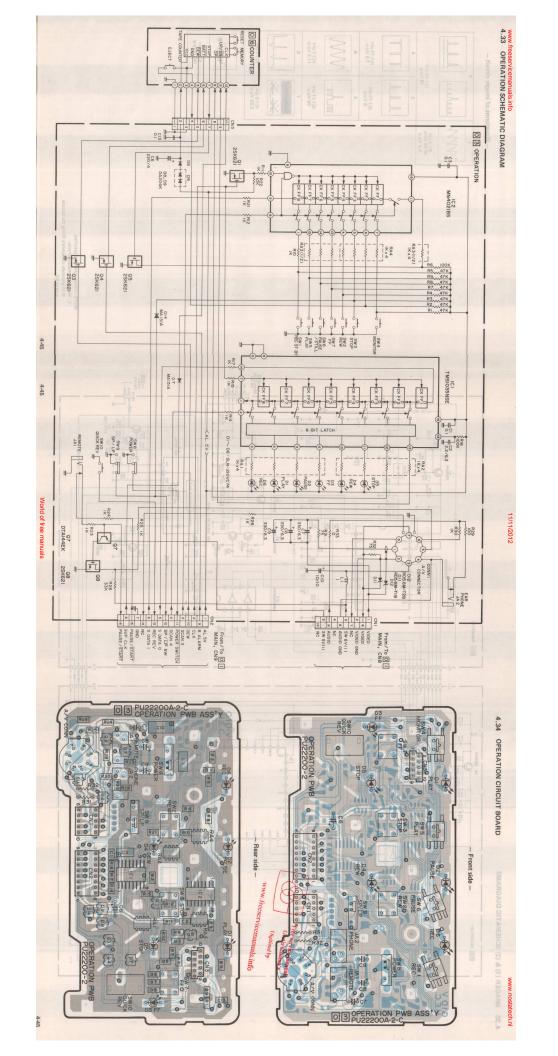
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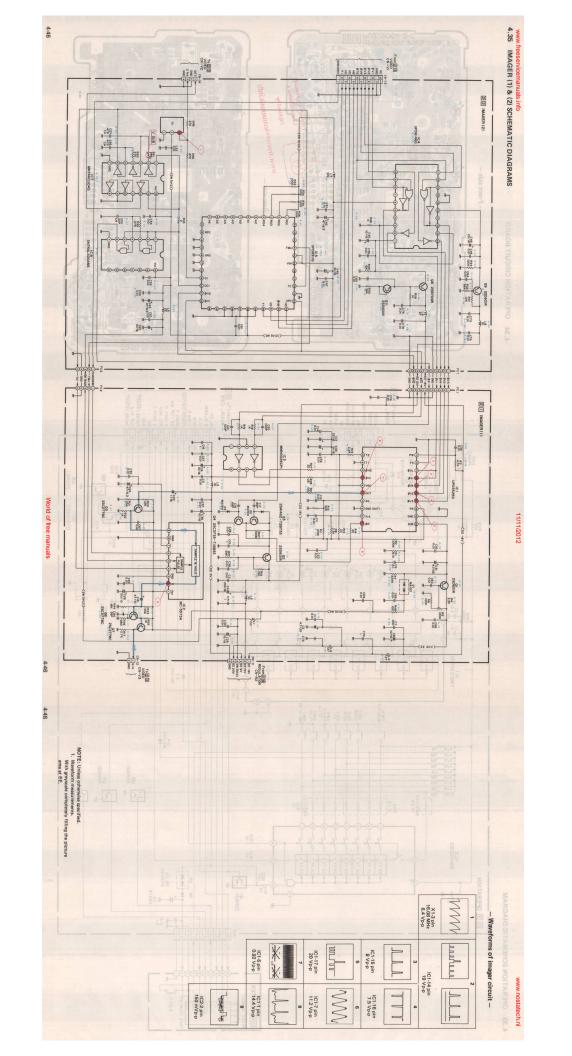


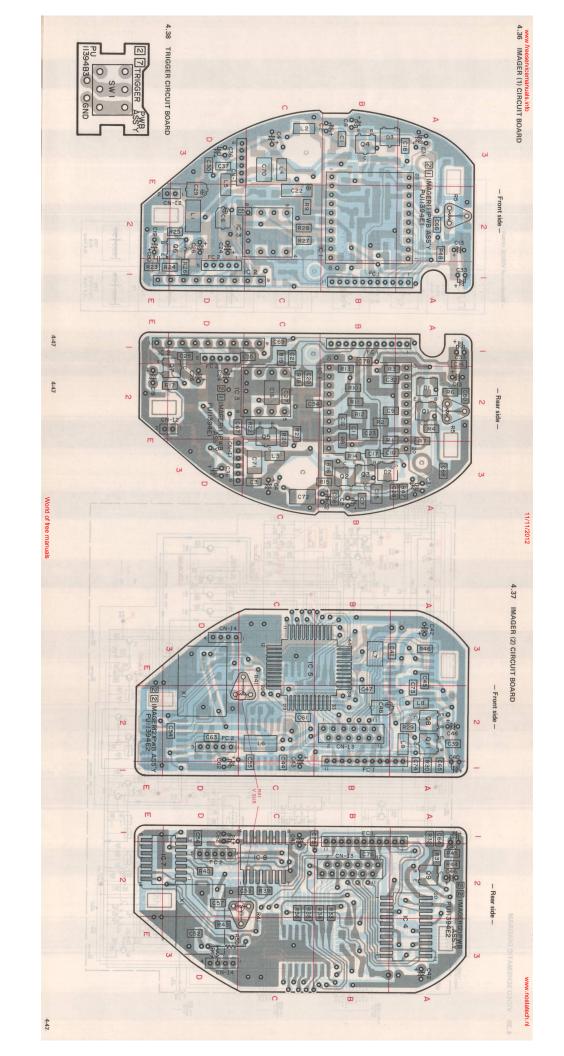


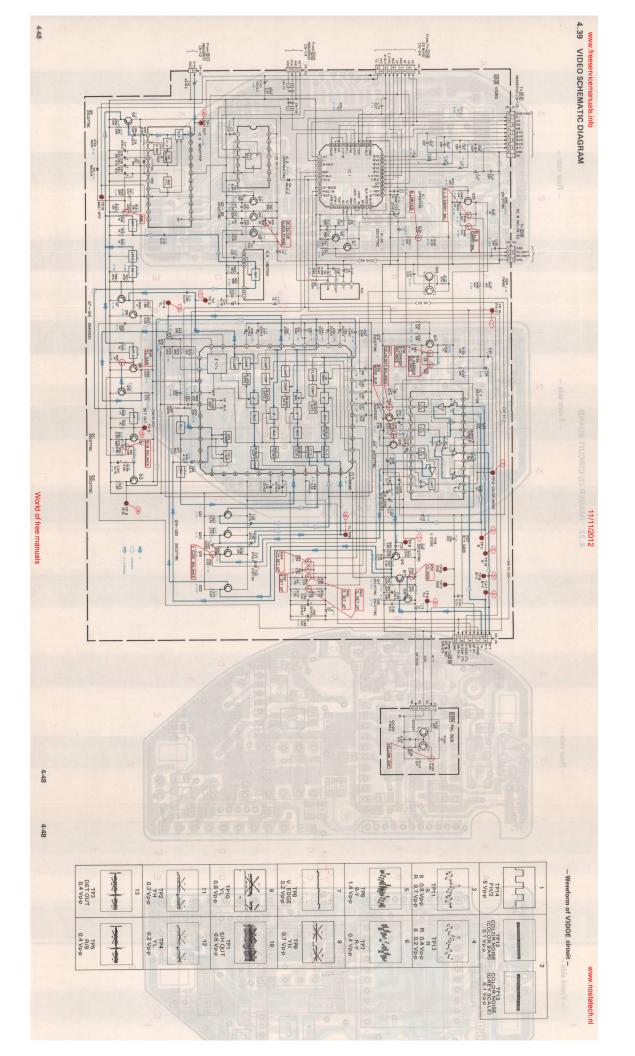


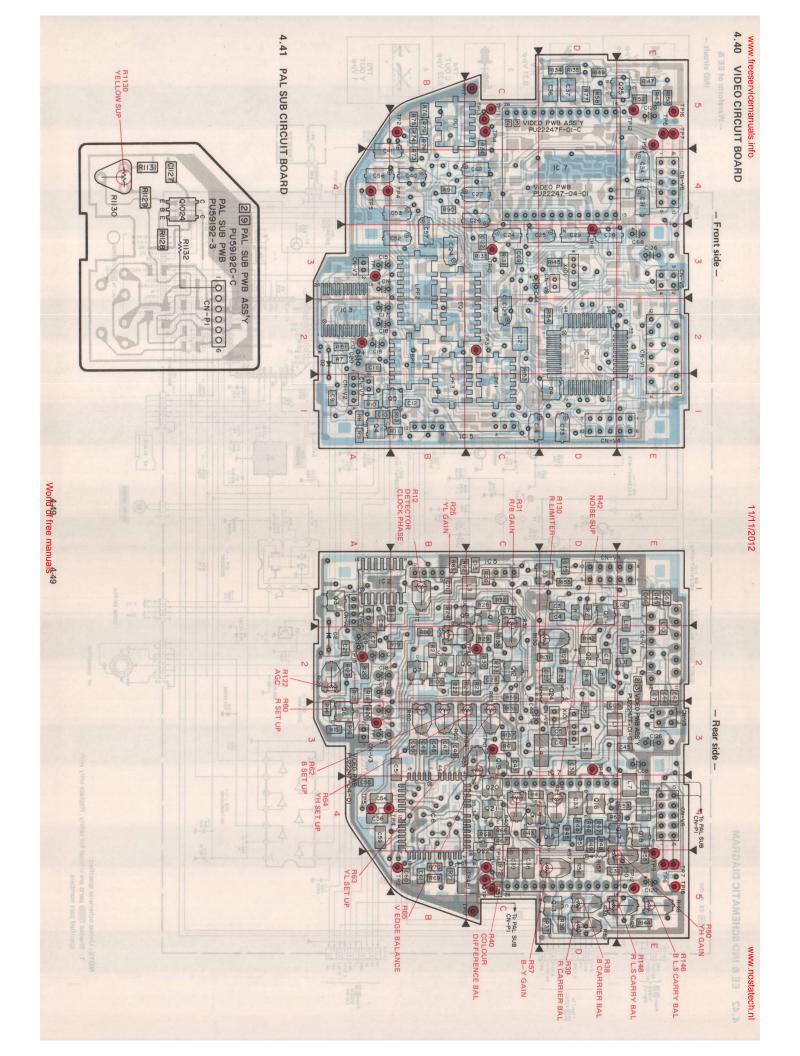


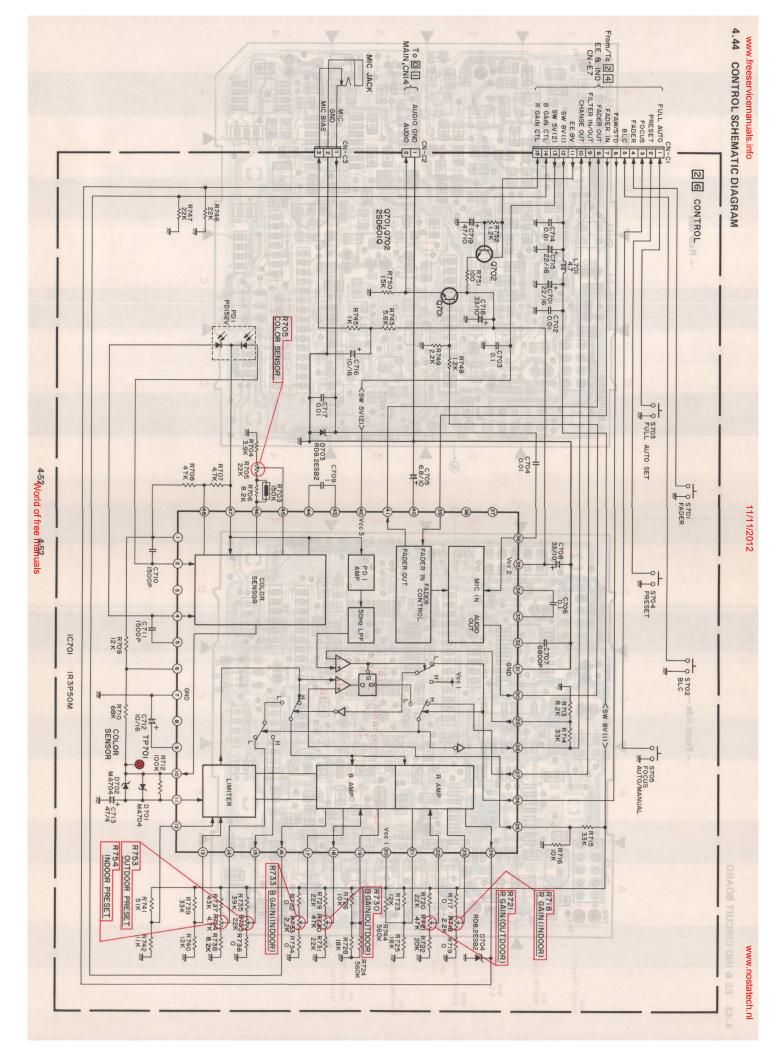






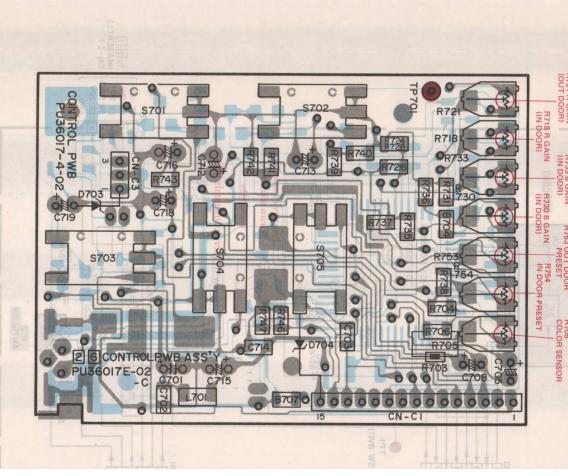






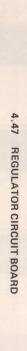
- Front side -

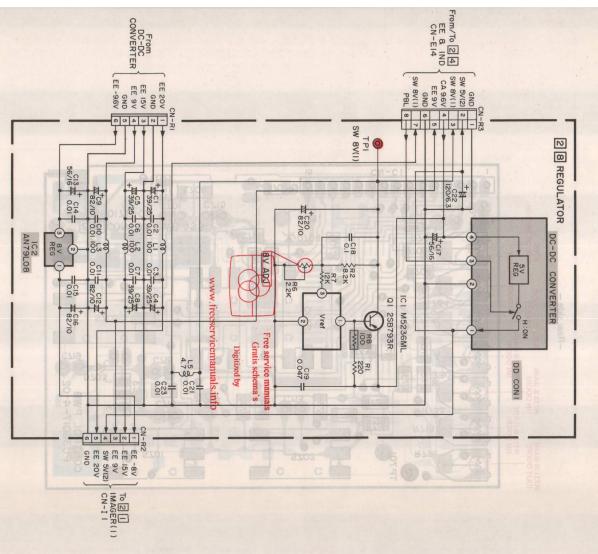
-Rear side -



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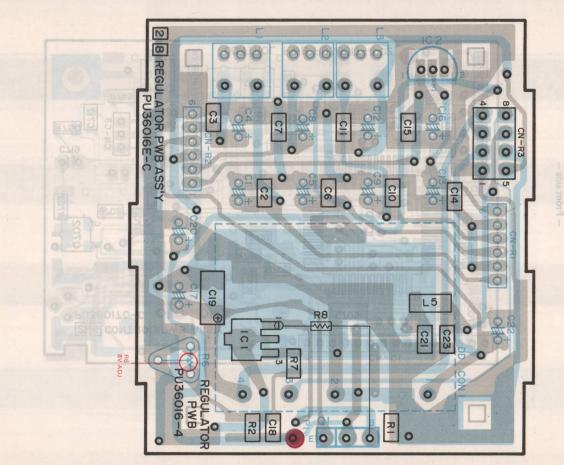
4-53

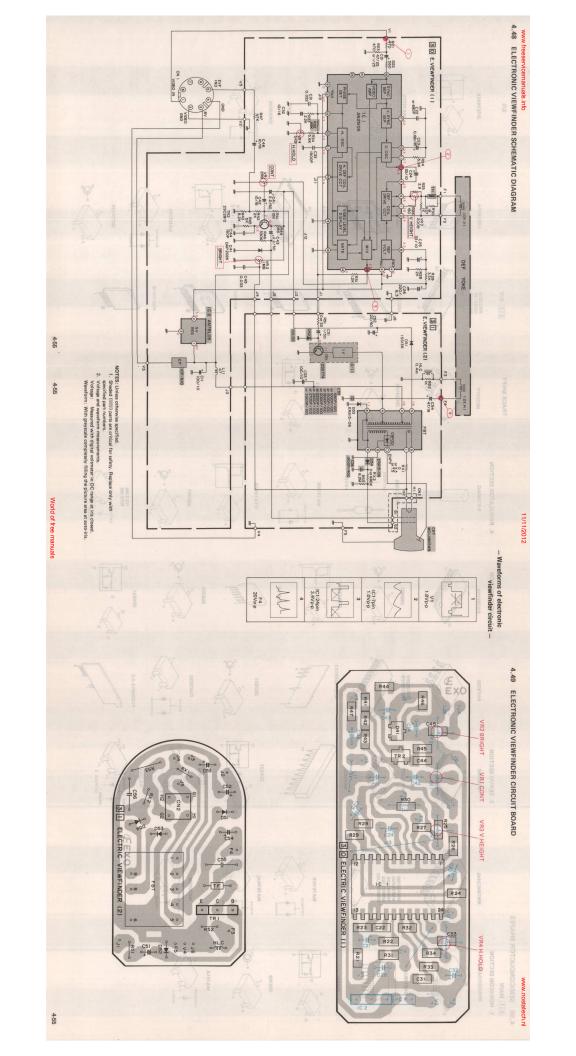


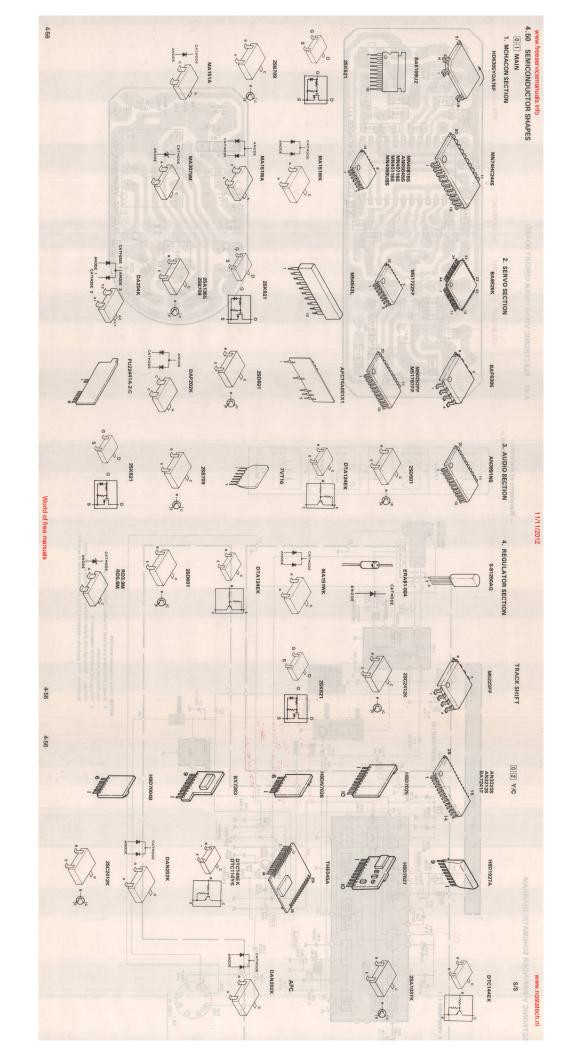


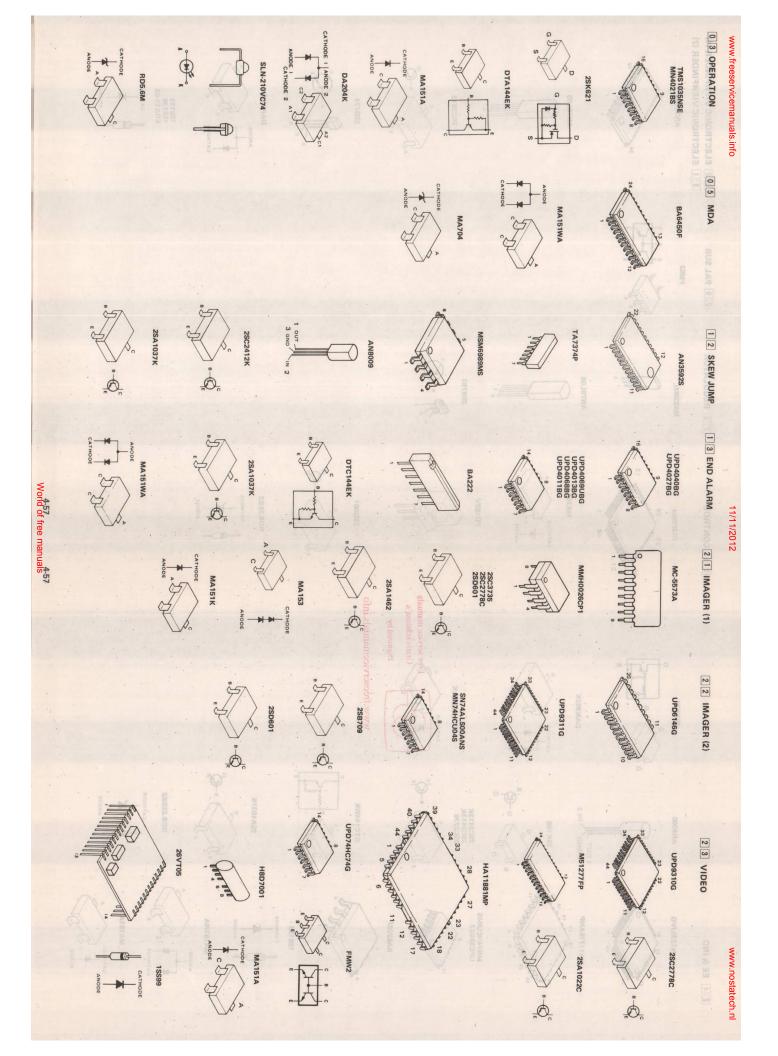
NOTE: Unless otherwise specified.

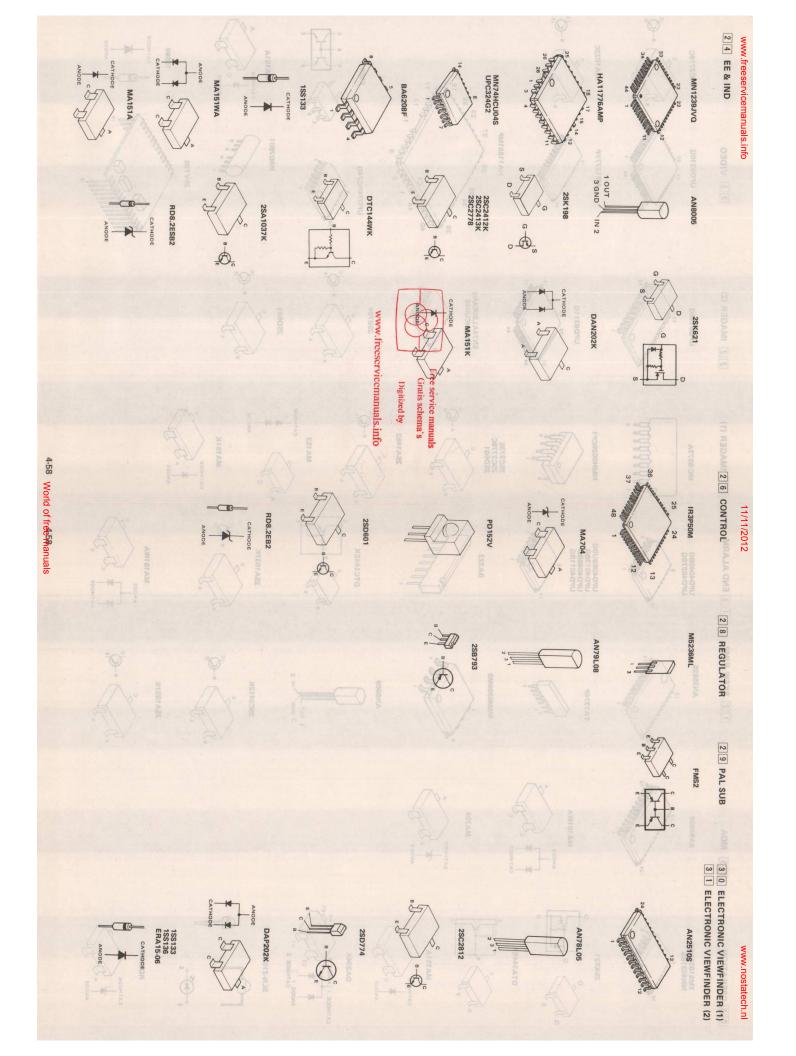
1. Shaded () parts are critical for safety. Replace only with specified part numbers.

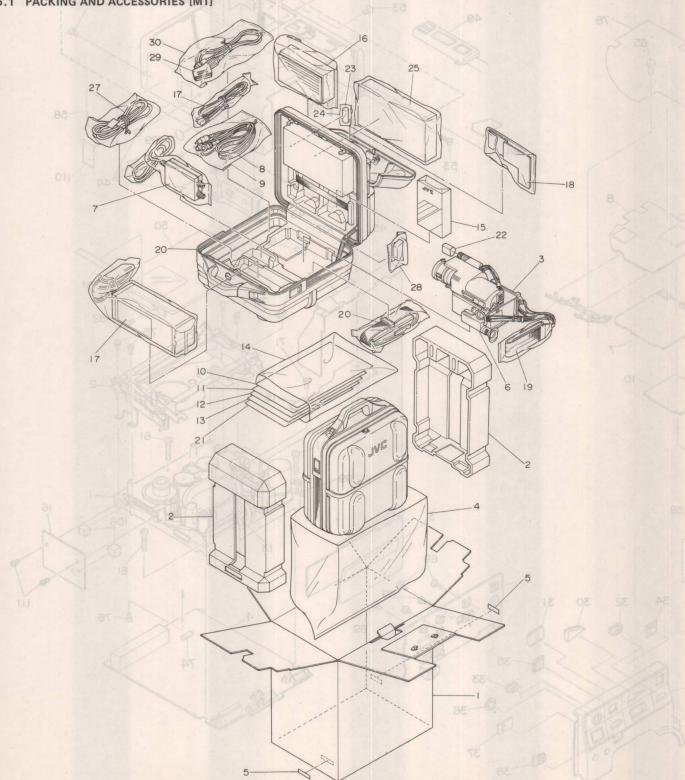




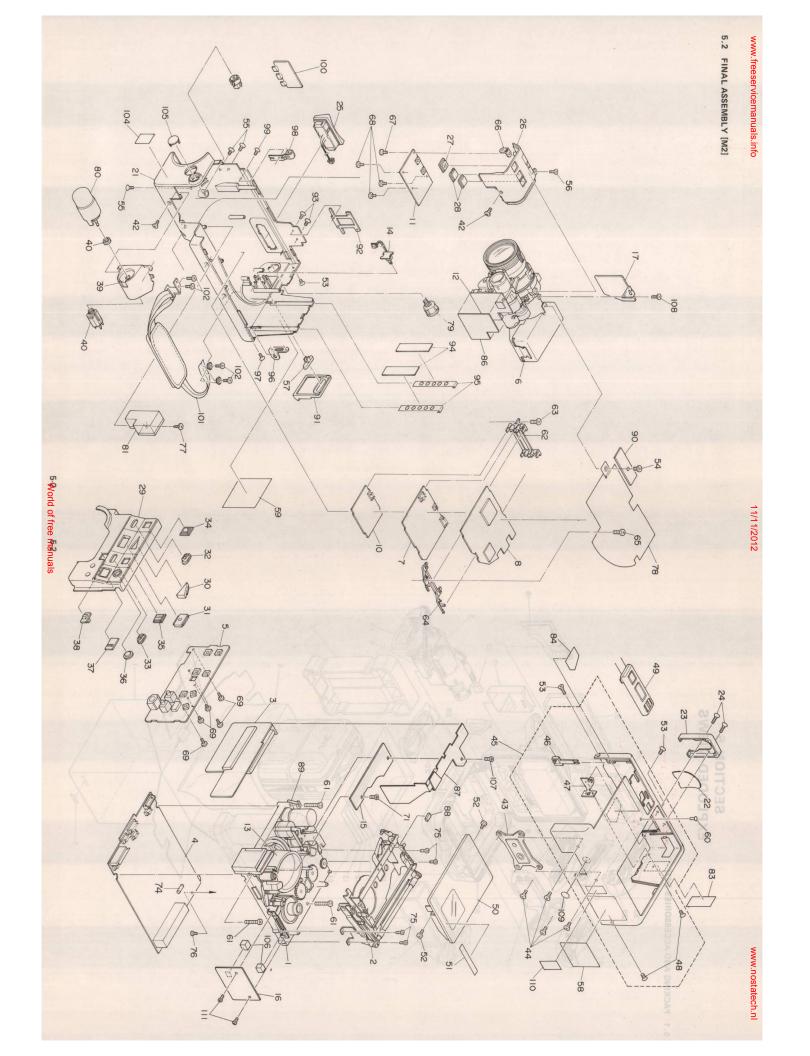




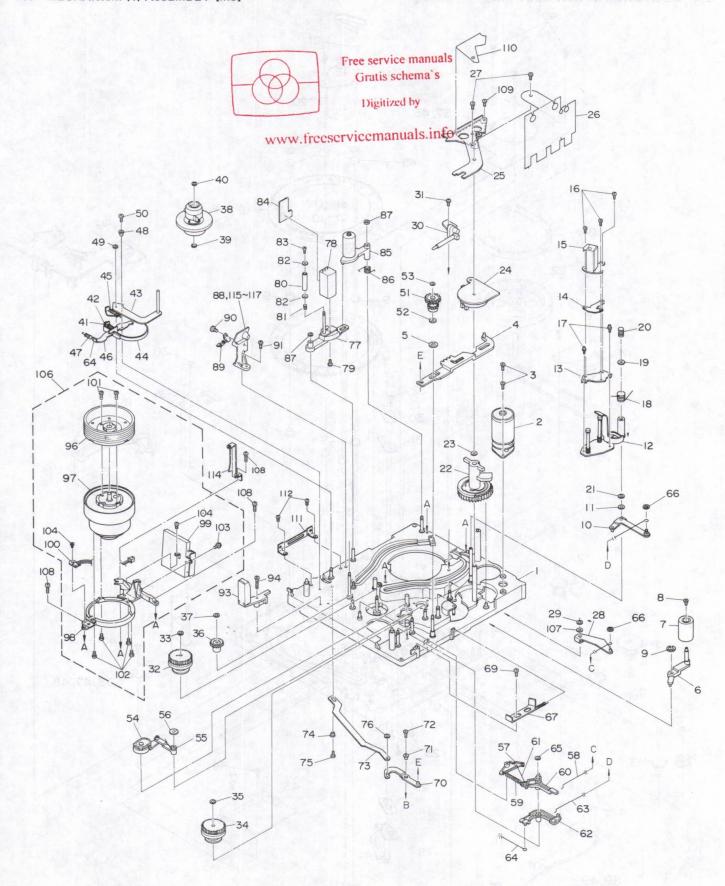


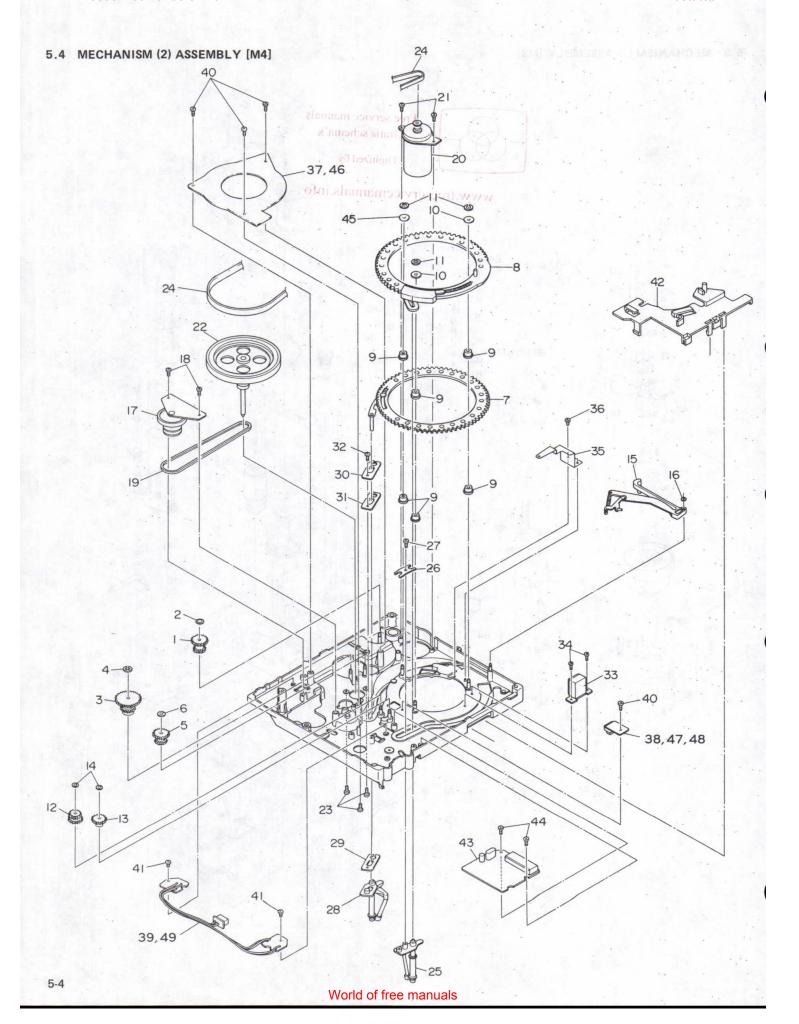


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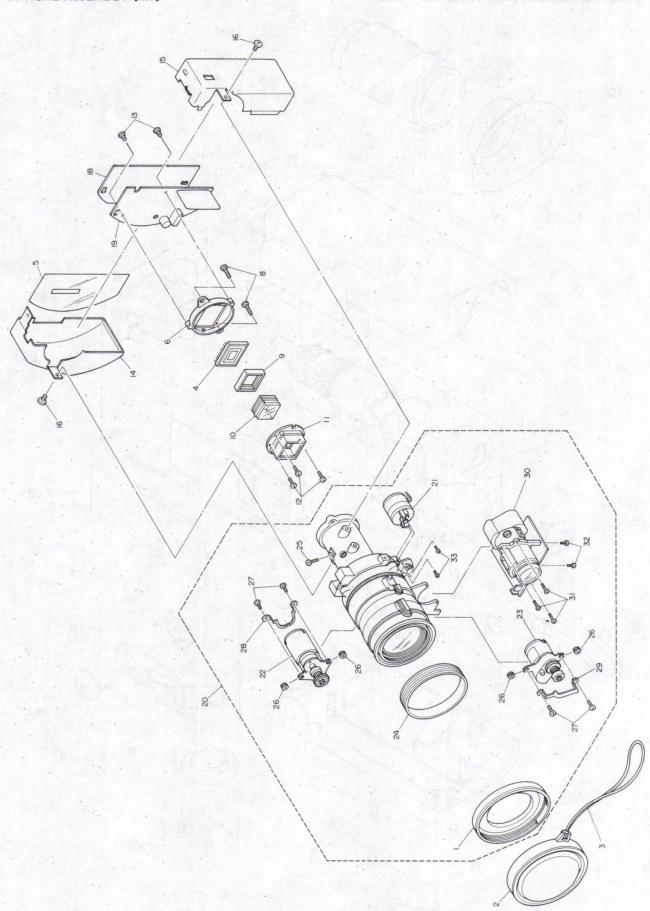


5.3 MECHANISM (1) ASSEMBLY [M3]

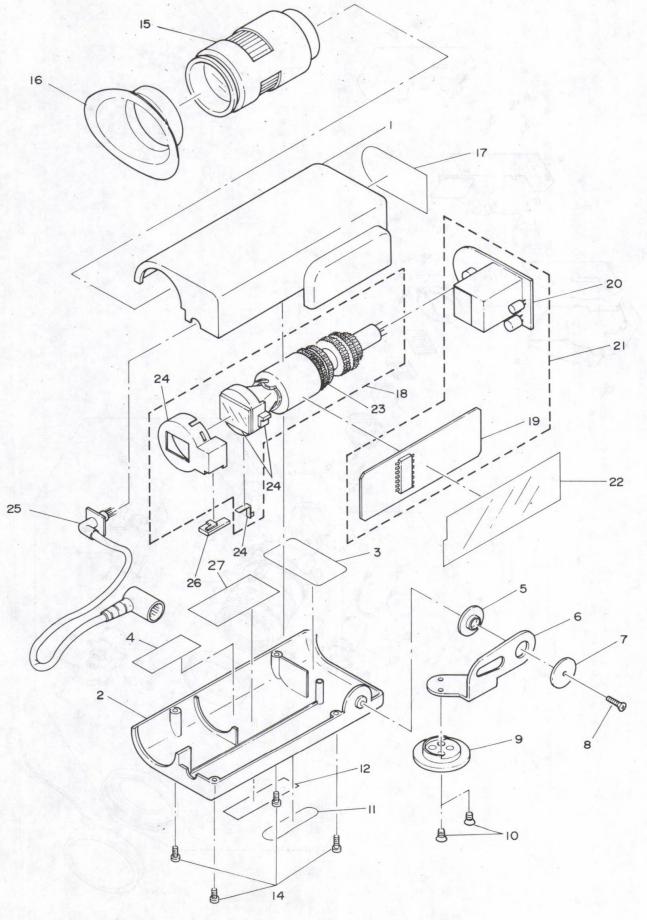




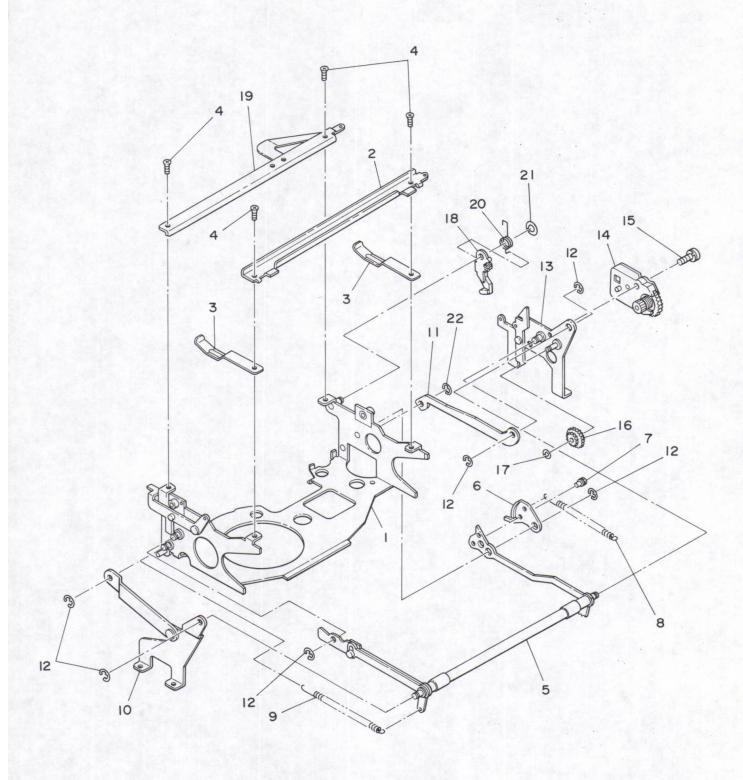
5.5 OPTICAL ASSEMBLY [M5]

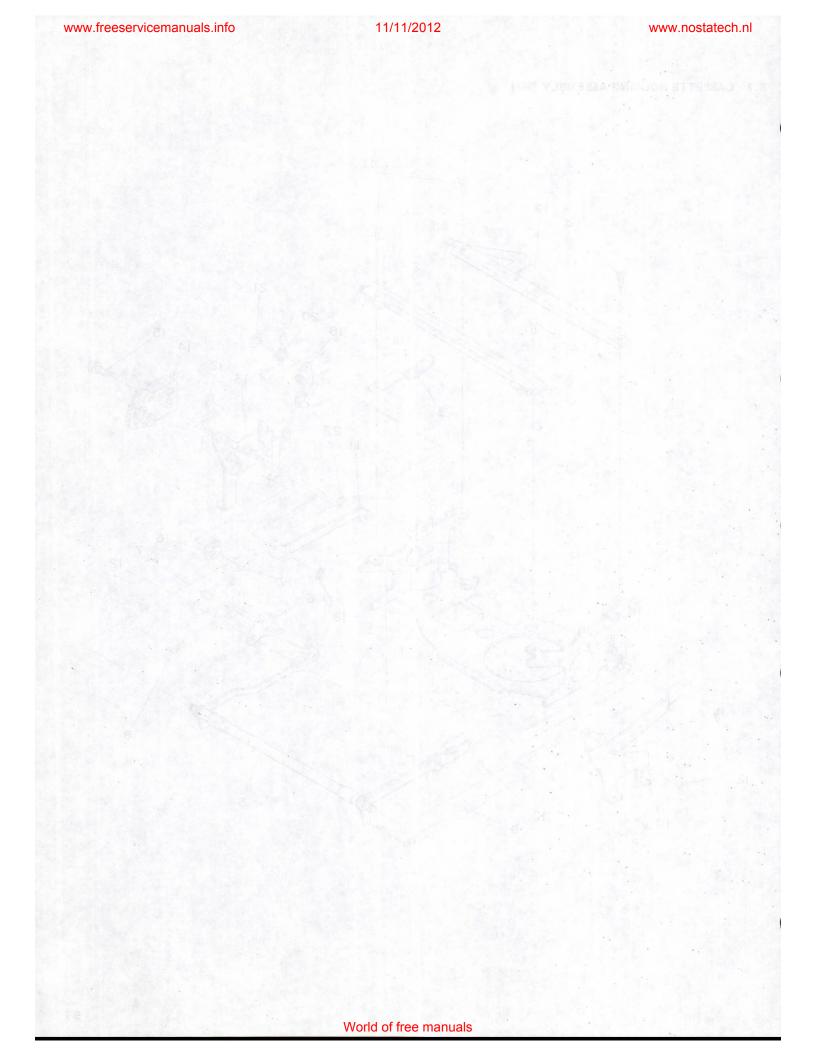


5.6 ELECTRONIC VIEWFINDER ASSEMBLY [M6]



5.7 CASSETTE HOUSING ASSEMBLY [M7]





SECTION 6 PARTS LIST

SAFETY PRECAUTION

Parts identified by the A symbol are critical for safety. Replace only with specified part numbers.

ABBREVIATIONS IN THIS LIST ARE AS FOLLOWS:

RESISTORS— All resistance values are in ohms (Ω) , unless

otherwise indicated.

k : 1,000 (Kilo)
M : 1,000,000 (Mega)
Chip R : Chip Resistor

Chip VR : Chip Variable Resistor
Comp. R : Composition Resistor
CR : Carbon Film Resistor
FR : Fusible Resistor

MFR : Metal Film Resistor
MPR : Metal Plate Resistor
OMR : Oxide Metal Film Resistor
PMR : Precistion Metal Film Resistor

UFR : Unflammable Resistor

VR : Variable Resistor (Potentiometer)

WR : Wire Wound Resistor

CAPACITORS-All capacitance values are in µF, unless

otherwise indicated.

pF : $\mu\mu$ F (Pico farad) C Cap : Caramic Capacitor Chip Cap : Chip Capacitor

Chip T Cap: Chip Tantalum Capacitor
E Cap: Electrolytic Capacitor
FM Cap: Film Mica Capacitor

LL Cap : Low Leak Current Electrolytic Capacitor

: Polypropylene Capacitor

MM Cap : Metalized Mylar Capacitor
MP Cap : Metalized Paper Capacitor
MY Cap : Mylar Capacitor
NP Cap : Non-polar Capacitor
PC Cap : Polycarbonate Capacitor

PS Cap : Polystyrol Capacitor
T Cap : Tantalum Capacitor
TF Cap : Thin Film Capacitor
TR Cap : Trimmer Capacitor

PP Cap

NOTES:

- [M] indicates mechanical symbol number.
- [2 digits] indicates circuit board symbol number.
- "X" indicates quantities for use.

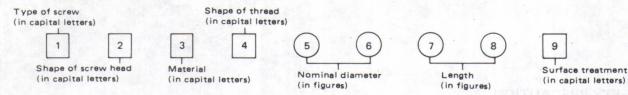
W Washer head (machine screws)

X Toothed head

6.1 STANDARD PART NUMBER CODING

6.1.1 Screw coding

Standard screw part numbers are as follows.

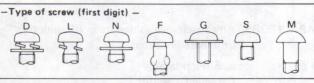


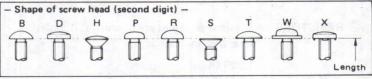
D

Type of screw (first digit)

- S Normal screws
- D Assembled machine screws (with plain and spring washers)
- (with spring washer) N (with plain washer)
- F Feather screws
- G Washer head tapping screws
- M Wood screws

Pan head R Round head S Flat head Truss head





Material (third digit)

- S Steel
- N Nickel silver
- Stainless steel
- Cast brass
- C Cast iron U Copper
- Aluminum Z
- B Brass
- Zinc alloy
- Phosphor bronze
- K Polycarbonate

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Shape of thread (fourth digit)

P Cross recessed head screws

Shape of screw head (second digit)

Oval countersunk head

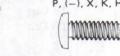
B Brazier head

Binding head

- (-) Slotted head machine screws
- X Slotted-cross recessed head machine screws
- K Cross recessed head machine screws for precision equipment (type 1)
- Cross recessed head tapping screws (type 1) В (type 2)
 - (type 3)
- E Cross recessed head special tapping screws (brand : evertight)
 - (brand : P-tight) (brand: taptight)
- T G

- Shape of thread (fourth digit) -Cross recessed head Slotted head







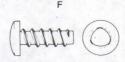
C

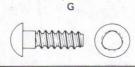
F

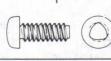












Nominal diameter (fifth and sixth digits)

The fifth and sixth digits are numbers indicating a nominal diameter or dimension. If the dimension exceeds 10 mm, three digits are used. The number indicates a nominal diameter or dimension, given in millimeters, multiplied by ten.

Length (seventh and eighth digits)

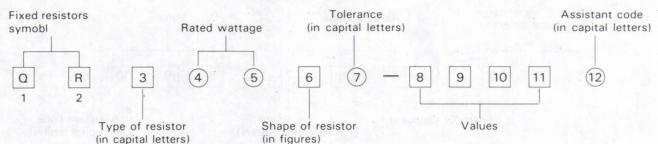
The seventh and eighth digits are numbers indicating length in milimeters. The preceding figure is zero when the dimension is smaller than 10 mm. For machine screws used in precision equipment whose length is given in units of 0.1 mm, the number indicates ten times the size of their length.

Surface treatment (ninth digit)

- Z Dichromate treatment after galvanizing (MFZn II-C)
- N Nickel plating (MFNi II, MFNi I)
- R Chromium plating (MBCr II, MBCr I)
- Silver plating (SP4)
- B Black coating after plating
- F Blackening of iron (FB)
- M Blackening after galvanizing
- K Pickling of brass (PF2)
- Phosphate treatment
- W
- Uni-chrome plating
- Coating with transparent paint
- Coloring red after galvanizing (MFZn II-C)
- C Coloring blue after galvanizing (MFZn II-C)
- Coloring green after galvanizing (MFZn II-C)
- V Coloring purple after galvanizing (MFZn II-C)

6.1.2 Fixed resistor coding

Fixed resistor part numbers are as follows.



	(iii capital lot		(iii iigai oo				
			wattage		erance		ant code
Type	of resistor (third digit)	(fourth	and fifth digits	s) (se	venth digit)	(twelf	th digit)
C	Composition resistors	AO	1/10 W	. F	± 1 %	A	Small type
D	Carbon film resistors	18	1/8 W	G	± 2 %	В	Small type
F	Unflammable resistors	16	1/6 W	J	± 5 %	S	Small type
G	Oxide metal film	14	1/4 W	K	± 10 %	Y	Lead taping
	resistors	12	1/2 W	N	± 20 %	Z	Lead taping
Н	Fusible resistors	01	1 W				
M	Metal plate resistors	. 02	2 W	Va	lues		
S	Metal glazed resistors	03	3 W	(eig	ghth - tenth or ele	eventh digits)	
V	Precision metal film	04	4 W	exa	amples:		
	resistors	05	5 W	R	47		0.47 Ω
W	Wire wound resistors	0.6	6 W	. 4	R7		4.7 Ω
X	Metal film resistors	07	7 W	4	70 47	× 10 ⁰	47 Ω
Z	Special resistors	. 75	7.5 W	4	71 47	× 10 ¹	470 Ω
		08	8 W	4	72 47	$\times 10^{2}$	4.7 kΩ
		10	10 W	4	73 47	× 10 ^{.3}	47 kΩ
		15	15 W	FA	Aservice manuals7	× 10 ⁴	470 kΩ
		A6	16 W		Fatis schema's 47		
		20	20 W		V resistance show		
		30	30 W	4	64Qitized by 464	4×10^{0}	464 Ω
				4	641 464	4×10^{1}	4.64 kΩ
			V	ww.freeservi	642manuals.inf66	4 × 10 ²	46.4 kΩ

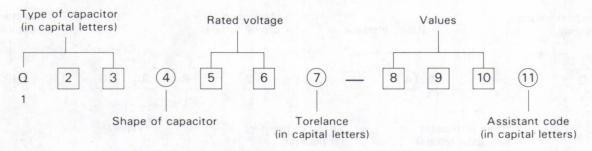
Shape of resistor (sixth digit)

Note: marks are flame retardant resistor.

Type of Shape resistor of resistor	C,	D	F	G	н	М	S	V	w	Х
1	→ .							-		of word
2	-	С						-	umije) iraj	Jena T
3			Argy Egin	ئك					n mulajini	
4		0		ţ□,	نكز	→			- Soviesti	di di di
5				· h					(L) type	4
6			H	-	. A .			P		-
7		一口	Lug (B) type					\Box	291	2
8			Lug (A) type				Chip			
9			Lug (C) type	2	5-3					5-3

6.1.3 Fixed capacitor coding

Fixed capacitor part numbers are as follows.



Ceramic capacitors

	Type of capacitor first — third digits)	2.24 . 5	Shape	of capacitor (fou	rth digit)	
Symbol	Characteristics	Mono-direction	Kink lead	Axial lead	Axial forming lead	Chip
QCC	Ceramic	1		4	5	And Share S
QCD	High capacitance	ESTATE BUILTY S.		rws in a	La contact	Α
QCF	High capacitance	1,4	3	BYE LOW	10/4/8/91	8,A
QCS	Temperature compensation	1	3	4	5	8,A
QCT	Temperature compensation	La Sept.	Specia	al coding	A Common	8,A
QCV	Ceramic	0.00	A TENNETH	1	3	a pitt listet
QCX	Ceramic		2000 231	1	3	Lanciana n
QCY	High capacitance	1,4	3	6	7	8,A
QCZ	Special type	Five service n	Specia	al coding		1

W. freeservicemanuals.inio

	Type of capacitor (first-third digits)		Shape of	f capacitor (fourt	h digit)					
Symbol	Characteristics	Tubular	Mono-direction	Anti-stress	Forming	Snap-in				
QEB	Low leakage		4	5	6					
QEC	Low leakage		4,8,A	9,B	6,C					
055	Tantalum (normal)		4	5	6					
QEE	Tantalum (small)		8							
QEF	Chip tantalum	8 (chip type)								
QEG	Low impedance		4		MIL HENRY	Lafe of				
QEK	Miniature type		4	5	6 .					
QEL	Small type		4	5	6	7				
QEM	Small type		4	5	6					
QEN	Non-polar	2	4	5	6	in a				
QEP	Non-polar (small)		4,A	5,B	6,C	4				
QER	Miniature type		4	5	6	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
QET	Small type	2	4	5,B	6,C	7				
QEU	Small type	The state of the s	4	5	6					
QEV	Small type		4	In All In Park	6	7				
QEW	Normal	2	4	5	6	7				

Paper film capacitors

	Type of capacitor	Shape of capacitor (fourth digit)							
(first — third digits)	T. L. L.	Norm	nal	Flame retardant				
Symbol	Characteristics	Tubular	Mono-direction	Kink lead	Mono-direction	Kink lead			
QFA	Metalized polypropylene				7				
QFE	Metalized mylar				. 5				
QFF	Film mica		4	G A TO	E . HE WA				
QFG	Polypropylene film		4	8	3000	Jan Print			
QFH	Metalized mylar	2	4	3	5,7	6			
QFJ	Mylar (special)		4	SELECTION SELECT	E was a second				
QFK	Metalized mylar (small)				5				
QFM	Mylar	2	4	3,7	5	6			
QFN	Mylar (small)		4	3					
QFP	Polypropylene		4	3,8		1145			
QFS	Polystyrole	2	4	3		os a view			
QFV	Thin film		4	8	Service Contract	DE FRANCE			
QFZ	Special type	Control of the contro	SOAP AND HER	Special coding					

Rated voltage (fifth and sixth digits)

Sixth digit Fifth digit	А	В	С	D	E	F	G	Н	J	K	V	W	×
0						3.15	4.0		6.3	are.			
1	10	sust of	16	20	25	346.1	40	50	63	80	35		
2	100	125	160	200	250	315	400	500	630	OUD!	350	450	600
3	1000	1250		2000		1000		5000					

Tolerance (seventh digit)

A	+ 100 %	М	±20 %
F	±1 %	N	±30 %
G	±2 %	Р	+ 100 %
Н	+50 %	R	+30 %
J	±5 %	X	+40 %
K	+ 10.0%	7	+80 %

Values (eighth - tenth digits)

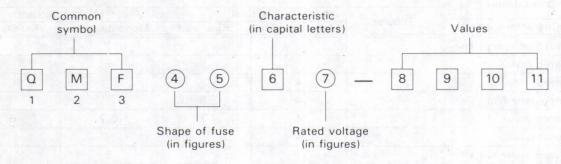
Examp	ole: Values are in pic	cofarads	
101	10×10 ¹	pF	100 pF
102	10×10^2	pF	1,000 pF (0.001 μF)
103	10×10^3	pF	10,000 pF (0.01 μF)
104	10 × 10 ⁴	pF	100,000 pF (0.1 μF)
105	10×10^5	pF	1 μF
5R0			5.0 pF

Assistant code (eleventh digit)

G Small size Z Lead taping

6.1.4 Fuse coding

Standard fuse part numbers are as follows.



Shape	of fuse	Rate	d voltage	Values	
(fourth	and fifth digits)	(seve	enth digit)	(eighth-tenth o	r eleventh digits)
51	ϕ 5.2 × 20 mm	1	AC125 V	example:	
60	ϕ 6.4×30 mm	2	AC250 V	R63	0.63 A
61	$\phi 6.35 \times 31.8 \text{ mm}$	3	0.1-1 A: AC250 V	1R0	1.0 A
63	ϕ 6.4 × 30 mm with lead wires		1.25-6.3 A: AC125 V	2R5	2.5 A
66	$\phi 6.35 \times 31.8$ mm with lead wires			100	10 A
00	Special type			R315	0.315 A
				1R25	1.25 A

Characteristics (sixth digit)

Symbol	Fusing Current	Fusing Time	Remarks
CHE PARTIES	210 %	Within 2 min.	and the supplied to the supplied
^	275 %	0.6 - 10 sec.	
Α	400 %	0.15 - 3 sec.	Anti-rush type (for Europe)
	1000 %	0.02 - 0.3 sec.	
	210 %	Within 30 min.	
В	275 %	0.05 - 2 sec.	Regular fusible type (for SEMKO, Europe)
	400 %	0.01 - 0.3 sec.	(101 SEIVINO, Europe)
С	135 %	Within 1 hr.	B - 1 ()11 - ()11 - 1
C	200 %	Within 2 min.	Regular fusible type (for UL, Japan
	210 %	Within 2 min.	Vision 18 Sept. 1 Sept.
E	275 %	0.6 - 10 sec.	A
-	400 %	0.15 - 3 sec.	Anti-rush type (for Europe)
	1000 %	0.02 - 0.3 sec.	
THE STATE OF	135 %	Within 1 hr.	A STATE OF THE STA
,	200 %	Within 2 min.	Anti-rush type
М	135 %	Within 1 hr.	D- 1- (-:\)
IVI	200 %	Within 2 min.	Regular fusible type (for UL)
R	160 %	Within 1 hr.	Danilla fizible to a
n	200 %	Within 2 min.	Regular fusible type
	160 %	Within 1 hr.	
S	200 %	Within 2 min.	Anti-rush type
	700 % - 2000 %	Within 0.01 sec.	
	135 %	Within 1 hr.	
U	200 %	Within 2 min.	Anti-rush type (for UL)
	800 % - 2000 %	Within 0.01 sec.	

•	• • • •					PART NO.	
				- "	5	-386.19	OPERATION BOARD ASS'Y, REFER
		Transcription of the said	PACKING AND ACCESSORIES [M1]				TO [03]
					6		IMAGER BOARD ASS'Y, REFER TO
	1	PQ31365-3	PACKING CASE, EG				[21], [22]
		PQ31365-4	PACKING CASE, EK	3	7	_	EE & IND BOARD ASS'Y, REFER TO
	. 2	PQ20335	CUSHION(L), X2				[24]
	3	_	FINAL ASS'Y, REFER TO [M2]		8		VIDEO BOARD ASS'Y, REFER TO [23]
	4	PQM30021-64	POLY BAG, EG		9		_
		PUP30320-27	POLY BAG, EK		10		REGULATOR BOARD ASS'Y, REFER
	5	PUP40329	SERIAL NO. STICKER, X2	1200			TO [28]
	6	-	E. VIEWFINDER ASS'Y, REFER TO [M6]	1 2 18			10 (20) (600 - 10) - 10 - 10 - 10 - 10 - 10 - 10
	7		RF UNIT, RF-P1E, INCL. 27		11	SHACO OF COR US OF	CONTROL BOARD ASS'Y, REFER TO [26]
	'			1 18	11	ERON PASSON	
Δ		DUEDEDO	REFER TO SERVICE MANUAL NO. 8361		13		OPTICAL ASS'Y, REFER TO [M5]
A	8	PU59526	CABLE ASS'Y, EG				DRUM ASS'Y, REFER TO [M3]
A		PU57546	CABLE ASS'Y (B), EK	1	14		TRIGGER BOARD ASS'Y, REFER TO [27]
	9	QPGA015-02505	POLY BAG		15		SKEW JUMP BOARD ASS'Y, REFER
<u></u>	10		INSTRUCTION BOOK, EG				· TO [12]
		PU30425-860	INSTRUCTION BOOK, EK	1	16	- 10 H	END ALARM BOARD ASS'Y, REFER TO [13
			A CHARLES A LANGE OF THE PARTY		17	DIA ROOM FILE	PAL SUB BOARD ASS'Y, REFER TO [29]
	11	BT-20060	GUARANTY CARD, EK ONLY		18	-	AD I WAT WELL STEEL MANY TANK DO
<u>A</u> .	12	PU30425-655-1	INSTRUCTION BOOK, FOR C-P3U		19	THE VETTO DO D	T WERON CHIEFAT SECURED SEC
	13	BT-20066	GUARANTY CARD, EK ONLY		20		AD STATE OF
	14	QPGA025-03505	POLY BAG, EG				
		PQM30023-5	POLY BAG, EK	A	21	DO40204E 42	LOWER CASE ASSIV INCL. 01, 105
	15	_	CASSETTE TAPE, EC-30	43	21	PQ10304E-13	LOWER CASE ASS'Y, INCL. 91–105
	16	45	BATTERY PACK, NB-P7U	Le s	. 22	PQ42559-1-2	SHOE SPRING
	17		AC POWER ADAPTER, AA-V2EG/EK,	1	23	PQ31190-1-5	SHOE
			REFER TO SERVICE MANUAL NO. 8424	18.8	24	SSSP2010M	SCREW, X2, SHOE
	18	PQ31233A-9	SHOE ADAPTER ASS'Y		25	PU59004-1-1	ZOOM SWITCH
	19	_	SHOULDER STRAP, VU-V17U, REFER TO	1	26	PQ20269B	SIDE PANEL ASS'Y
		1910		100	27	PQ42246	BUTTON (2), FULL AUTO
	20		SERVICE MANUAL NO. 8458 (4/5)	174.8	28	PQ42247	BUTTON (3), X2, FILTER, FOCUS
	20		CARRYING CASE, CB-V50U, REFER TO	1	29	PQ10305D	FRONT PANEL ASS'Y
			SERVICE MANUAL NO. 8458 (3/5)		30	PQ42057-1-4	PLAY BUTTON
^			FARROWY TURE OF BUILDING MOVE OF THE				
	21	PU36158-1-1	DBP INF SHEET, EG ONLY	13			HIRRESONS TO BEET AND THE
	22	PQ42620-1-1	MIC PROTECTOR	1	31	PQ42058-1-6	STOP BUTTON
	23	UM-3DJ	BATTERY, R6 TYPE		32	PQ42059-1-2	FF BUTTON
	24	PQM30021-48	POLY BAG		33	PQ42060-1-2	REW BUTTON
	25	- 100	CASSETTE ADAPTER, C-P3U	12.3	34	PQ42061-1-2	VF MODE BUTTON
	26	-	un esta 5-milion de la reconección despris		35	PQ42062-1-2	PAUSE BUTTON
\triangle	27	PU55906	AERIAL CABLE ASS'Y	13-95	36	PQ42066	REC BUTTON
	28	PQ42594B	PAD ASS'Y	1	37	PQ42251-1-3	POWER BUTTON
1	29	PU57548	CABLE ASS'Y (P), EG ONLY		38	PQ42252	SLIDE KNOB, SP/LP
	30	QPGA015-02505	POLY BAG, EG ONLY		39	PQ31313A	MIC JACK COVER ASS'Y
					40	PU56808-2	JACK ASS'Y
					41		_ Address _ Address _ Applearing a few and
				146	42	SSSP2004M	SCREW, X 2
			Market Control of the second		43	PQ31095A-3	BASE ASS'Y
				1		SSSP2604M	
				A	44		SCREW, X4, BASE ASS'Y
					45	PQ10306B-2	UPPER CASE ASS'Y, INCL. 46–48
			A CHIEF OF THE PROPERTY OF THE	1	46	PQ42253-2	REC REV BUTTON
					47	PQ42239	HOOK (1)
				1	48	SSSP2004M	SCREW, X2, UPPER CASE
					49	PU59006-2	TAPE COUNTER
				1	50	PQ31332E-9	CASSETTE COVER ASS'Y, INCL. 51
			THE RESERVE THE PROPERTY OF TH				
			FINAL ASSEMBLY [M2]	198	51	PQ31428-2	LABEL
					52	SDSP2004M	SCREW, X2, CASSETTE COVER
	1		MECHANISM ASS'Y, REFER TO [M3],		53	SSSP2004M	SCREW, PLATE HOOK, X 3
	11/4		[M4]	1	54	SSSP2010M	SCREW, PLATE
			CACCETTE HOUSING ACCIV BEEED	1 100	55	SSSG2608M	TAPPING SCREW, X 3
	2	Te	CASSETTE HOUSING ASS'Y, REFER				
	2		TO [M7]		56	SDSG2606Z	
	2						TAPPING SCREW, SIDE PANEL TRIGGER BUTTON

	NO.	PART NO.	PART NAME, DESCRIPTION	# A N	10.	PART NO.	PART NAME, DESCRIPTION
1	59	PQ31340-4	BATTERY CAUTION LABEL				
	60	PU58213	VMP CAP				MECHANISM (1) ASSEMBLY [M3]
	61	SPSG2620Z	TAPPING SCREW, X3, MAIN DECK	1 10	1	100	MAIN DECK ASS'Y
	62	PQ31195	BOARD HOLDER	Δ	2	PU58720G-1	MODE CONTROL MOTOR ASS'Y
	63	SDSF2608Z	TAPPING SCREW, BOARD HOLDER		3	SPSH1740M	SCREW, X 2
	64	PQ31196-1-4	BOARD HOLDER	1	4	PQ41059B-5	PINCH ROLLER BAR ASS'Y
	65	SDSF2608Z	TAPPING SCREW, SHIELD PLATE	The same	5	REE2500	E RING
	66	PQ42288	PLATE NUT (3)	100	6	PQ41063A-3	PINCH ROLLER ARM SUB ASS'Y
	67	SDSF2005Z	TAPPING SCREW, PLATE NUT (3)		7	PQ42302A	PINCH ROLLER ASS'Y
	68	SDSF2005Z	TAPPING SCREW, CONTROL BOARD, X 3	1 1 1	8	SPSH1720M	SCREW
	69	SDSF2005Z	TAPPING SCREW, X5, OPERATION BOARD		9	REE2500	ERING
	70	FRANCOT HAVE	R.Y. co./_fa.o.f.Ro.ii	- T- B	10	PQ42095A	BRAKE CONTROL ARM ASS'Y
			Uncoriu alla della	1 18			
	71	SPSH1740M	SCREW	1	11	PQM30018-21	SPACER
	72	-		1	12	PQ42097A-5	HEAD ARM ASS'Y
	73	name Track		1	13	PQ42107	A/C HEAD BASE
	74	-	FUSE, REFER TO [01], F1	1	14	PQ42682	HEAD SPRING
	75	SPSH1740M	SCREW, X4, CASSETTE HOUSING	1	15	PU58722-1-1	A/C HEAD
	76	SPSN1740M	SCREW, MAIN BOARD	1	16	SPSK1740M	SCREW, X 3
	77	SDSF2608Z	TAPPING SCREW, DC-DC CONVERTER	1	17	PQ40620-1-4	SPECIAL SCREW, X 2
	78	PU36078-1-3	SHIELD PLATE, CAMERA ASS'Y	1	18	PQ42112	TORSION SPRING
	79	PU59008	8PIN CONNECTOR, E. VF ASS'Y	1	19	Q03093-825	WASHER
	80	PU59005C	MICROPHONE	2	20	PQM30002-111	SPRING
	OR	PU59451	MICROPHONE	A Page			
				2	21	PQM30018-21	SPACER
1	81	PU59143-3	DC-DC CONVERTER	2	22	PQ42457A-3	CONTROL CAM ASS'Y
	82	-	a kontres mode. The Yourself les	2	23	Q03093-825	WASHER
	83	PU54705-2	CAUTION LABEL	2	24	PU58749-2-6	MODE CONTROL SWITCH ASS'Y
	84	PU59232-2	FEATURE LABEL	2	25	PQ42856	MIDDLE POLE STOPPER
	85	E RUD THE RUDGE	SOUTH POSTERN AND THE DISTRIBUTION WAS DR	. 2	26	PQ42527	COVER (A/C HEAD)
	86	PQ42686	SHIELD PLATE	2	27	SPSH1740M	SCREW, X2
	87	PQ31470	SHIELD PLATE	2	28	PQ42120A	EJECT LEVER ASS'Y
	88	PQ42837	SPACER	2	29	PQM30017-25	SLIT WASHER
	89	PU58339	SHOE EARTH	3	30	PQ42134A-2	MIDDLE POLE ASS'Y
	90	PQ42548-4	PLATE				
				3	31	SPSH1740M	SCREW
	91	PQ31199	TRIGGER BUTTON COVER	3	32	PU58724	CLUTCH GEAR (S)
	92	PQ42232	SHOE BASE	3	33	PQM30017-15	SLIT WASHER
	93	SSSP2004M	SCREW, X 2	3	34	PU58725-1-1	CLUTCH GEAR (T)
	94	PQ42516	SHEET, X 2	3	35	PQM30017-15	SLIT WASHER
	95	PQ42233-1-1	TERMINAL PLATE, X 2	3	36	PQ42153-1-3	SUPPLY IDLER GEAR
	96	PQ42240	HOOK (2)		37	PQM30017-15	SLIT WASHER
	97	SSSP2004M	SCREW		38	PU58726	SUPPLY REEL DISK
	98	PQ42243	PLATE NUT (2)		39	PQM30018-40	SPACER
	99	SSSP2004M	SCREW		10	PQM30017-34	SLIT WASHER
	100	PQ42554	GRIP RUBBER	9			
	101	20040017	VILLABAD TANDOZDA TA	4	41	PQM30002-177	SPRING
	101	PQ31231B-3	GRIP BELT ASS'Y	4	42	SPSH1780N	SCREW
	102	SDSG2008Z	TAPPING SCREW, X4, GRIP BELT ASS'Y	. 4	43	PQ42155A-2	TENSION ARM SUB ASS'Y
	103	-	en Paragras and and an India	4	44	PQ42158A	TENSION BAND ASS'Y
	104	PQ42496	CCD MARK	4	45	PQM30001-215	SPRING
	105	PQ42420	W. FILTER	4	46	PQ42163	TENSION BAND PLATE
	106	PQM30029-86	SPACER, X2	4	47	PQM30001-202	TENSION SPRING
	107	PQ41450	SCREW, SHIELD PLATE	4	48	PQM30013-7-2	FLANGE COLLAR
	108	SDSF2604Z	TAPPING SCREW, PAL SUB BOARD	4	49	PQM30017-15	SLIT WASHER
	109	-	NEMKO LABEL		50	SPSH1740M	SCREW
\triangle	110	PQM30044-15	DBP LABEL				
		DOM: EX. NO	COLUMN TO SERVICE HE BEAUTIFUL HE HE		51	PQ42164	TAKE-UP REEL GEAR
	111	SPSH1740M	SCREW, X2, E. ALARM BOARD		52	Q03093-829	WASHER
					53	PQM30017-25	SLIT WASHER
					54	PU58729-1-1	IDLER ARM
						2010105 1 2	TORSION SPRING
					55	PQ42165-1-2	TORSION SPRING

NO.	PART NO.	PART NAME, DESCRIPTION	#△	NO.	PART NO.	PART NAME, DESCRIPTION
57	PQ42167	MAIN BRAKE (S)	-	114	PQ42857	BRACKET
58	PQ42168	ROD		115	TPS605	PHOTO TRANSISTOR
59	PQM30001-203	TENSION SPRING, MAIN BRAKE (T)		116	PQ40735-2-5	END SENSOR BRACKET
60	PQ42174-1-3	MAIN BRAKE (T)	No. 3	117	PU48793	CAP
61	PQ42175-1-1	ROD, TENSION BAND PLATE				
62	PQ42170	OFF LEVER	The second			
63	PQ42171-1-1	ROD				
64	PQ42172	ROD				
65	PQM30017-25	SLIT WASHER			*******	
66	REE1500	ERING, X 2				MECHANISM (2) ASSEMBLY (MA)
67	PQ42176A	SEARCH BRAKE ASS'Y	100			MECHANISM (2) ASSEMBLY [M4]
68	4-15-	FOR BOTA INSTALL (1820)			2010200	The second of th
69	PQ41450-1	SCREW		1	PQ42502	LOADING GEAR (1)
70	PQ42178A	TENSION LEVER ASS'Y		2	PQM30017-25	SLIT WASHER
			70	3	PQ42122A	LOADING GEAR (3) ASS'Y
71	PQM30013-7-2	FLANGE COLLAR		4	REE2000	ERING
72	SPSH1740M	SCREW	The Park	5	PQ42123	LOADING GEAR (4)
73	PQ42180	TENSION BAR		6	PQM30017-25	SLIT WASHER
74	PQM30013-7-2	FLANGE COLLAR		7	PQ42124A-1	LOADING RING (T) ASS'Y
		SCREW		8	PQ42127A	LOADING RING (S) ASS'Y
75	SPSH1740M		10.75%	9	PQ42131	COLLAR, X 6
76	PQM30017-25	SLIT WASHER	29 00-3	10	PQM30018-10	SPACER, X 2
77	PQ42667A	ERASE HEAD ARM ASS'Y				
78	PU56330	FULL ERASE HEAD		11	REE1500	ERING, X3
79	SPSP2003Z	SCREW		12	PQ42132-1-1	RING IDLER GEAR (1)
80	PQ41134-3	TAPE GUIDE (S)	7	13	PQ42133	RING IDLER GEAR (2)
				14	PQM30017-25	SLIT WASHER, RING IDLER GEARS, X 2
81	PQM30002-152	SPRING		15	PQ42141A-2	MIDDLE POLE LEVER ASS'Y
82	PQ41135-3	GUIDE FLANGE, X 2		16	PQM30017-15	SLIT WASHER
83	SSSH1450M	SCREW				
84	PQ42548	PLATE	The second	17	PQ42145A	CENTER PULLEY ASS'Y
85	PQ42305B-3	IMPEDANCE ROLLER ARM ASS'Y	1 301	18	SPSK1740M	SCREW, CENTER PULLEY ASS'Y, X 2
86	PQ42653	TORSION SPRING		19	PQM30003-13	BELT, CENTER PULLEY ASS'Y
87	PQM30017-26	SLIT WASHER, X 2		20	PU58727W	CAPSTAN MOTOR ASS'Y
88	PU22266B3	END SENSOR TR ASS'Y, INCL. 89, 90,				
		115-117, [09]		21	SPSH1740M	SCREW, X 2
00	PU57130	CASSETTE SWITCH		22	PQ42537B	CAPSTAN FLYWHEEL ASS'Y
89				23	SPSH1740M	SCREW, CAPSTAN MOTOR ASS'Y, X 3
90	SPST2606Z	TAPPING SCREW		24	PQM30004-3	BELT, CAPSTAN MOTOR
		11 HOLD (D) (0 H90 %)	100	25	PQ41484C-3	SUPPLY POLE BASE ASS'Y
91	SPSH1740M	SCREW		26	PQ40599-2	SLIDE PLATE (S)
92	- The state of the	A STEEL THE TOTAL TOTAL TOTAL CONTROL OF THE TOTAL		27	SPSK1740M	SCREW
93	PU58737	REC SAFETY SWITCH		28	PQ41485D-6	TAKE-UP POLE BASE ASS'Y
94	SPSH1780M	SCREW		29	PQ40730	SLIDER SPRING
95	-	THE PROPERTY OF THE PARTY OF		30	PQ40731	SLIDE WASHER
96	PDM2015B	UPPER DRUM ASS'Y				
97	PDM2017C	LOWER DRUM ASS'Y		31	PQ42593	SLIDE PLATE (T)
98	PQ30235A-3	DRUM BASE ASS'Y		32	SPSH1740M	SCREW
99		PRE AMP IC, REFER TO [04]	Bon	33		PICK UP HEAD
100	PU56420-3	DEW SENSOR		34	SPSK1740M	SCREW, X 2
100	1030420-3	REMEDOGUARDO MARGILEROS RE		35	PU58734-1-4	BRUSH
101	PO41525 2			36	SPSH1720M	SCREW
101	PQ41535-2					
102	SPSK1760M	SCREW, X 4	100	37	PU22266B1	FG PLATE ASS'Y, [11], INCL. 46
103	DPSP2005Z	ASS'Y SCREW		38	PU22266B2	END SENSOR LED ASS'Y, [10], INCL. 47, 4
104	SPSK1720M	MINI SCREW, X 2	5 3	39	PU22266B4	REEL SENSOR ASS'Y, X2, [07], [08], INCL
105	-	_ DM 中面	187	40	SPSH1740M	SCREW, X 4
106	PDV2050A	DRUM ASS'Y, INCL. 96-104				
107	Q03093-838	WASHER	100	41	SPSH1720M	SCREW, X 2
108	SPSH1760M	SCREW, DRUM ASS'Y, X 3		42	PQ31339	COVER (BOTTOM)
109	PQ41450	SCREW		43	-	MDA BOARD ASS'Y, REFER TO [05]
110	PQ42860	COVER		44	SPSH1740M	SCREW, MDA BOARD, X 2
				45	PQM30018-46	
111	PQ42689	BOARD BRACKET, END ALARM BOARD				SPACER
111				46	PU58655-2	CAP. HOUSING, X2
112	SPSH1730	SCREW, X2		47	TLN107A	IR LED
113	_			48	PQ40734	END SENSOR MOLD
110				49	TLP907	PHOTO SENSOR, X2

<u> </u>	NO.	PART NO.	PART NAME, DESCRIPTION	# 🛆	NO.	PART NO.	PART NAME, DESCRIPTION
					11	PU59368	SERIAL NO. LABEL
					12	PU59522	WARNING LABEL
			OPTICAL ASSEMBLY [M5]		13	in a 87 - a some	
			A STATE OF THE STA		14	PU59090-15	TAPPING SCREW, X 4
		PU58924	HOOD		15	PU59090-16	LENS ASS'Y
	2	PQ31311	HOOD CAP	6 12	16	PU59090-17	LENS RUBBER
	3	PQ42477	STRING	1	17	PU59354-2	NAME PLATE
	4	UPD3525D	IC, IMAGER (2) BOARD	1			
	5	PQ42338	INSULATOR		18	PU59090-20	CRT ASS'Y, INCL. 23, 24
	6	PQ31191	IMAGER HOLDER		19	_	E. VF (1) BOARD ASS'Y, REFER TO [30]
	7			1	20		E. VF (2) BOARD ASS'Y, REFER TO [31]
	8	DPSP2008Z	SCREW, X 2				
	9	PQ42339	SPACER RUBBER	2	21	PU59336B	E. VF BOARD ASS'Y, INCL. 19, 20, 25
	10	PU58927	OPTICAL LPF	100	22	PU59090-24	INSULATOR
			FERANDOR DATE OF THE SOURCE STORES		23	-	DEFLECTION YOKE, REFER TO
	11	PQ31192	OPTICAL LPF HOLDER	B B			PAGE 6-35
	12	SPSK2004F			24	-	CRT, INCL. 26, REFER TO PAGE 6-35
			MINI SCREW, X 3		25	PU59090-29	VIEWFINDER CABLE
	13	SPSP2004Z	SCREW, X 2		26	PU59090-33	TERMINAL COVER, HIGH VOLTAGE
	14	PQ20297	R SHIELD CASE	1			
	15	PQ20298	L SHIELD CASE	_	27	PU59523	X-RAY LABEL
	16	SDSA2604Z	TAPPING SCREW, X 2		-	PU58762D	E. VF ASS'Y, INCL. 1–27
	17	- 97	The state of the s				
	18	-	IMAGER (1) BOARD ASS'Y, REFER TO				
			[21]				
	19	_	IMAGER (2) BOARD ASS'Y, REFER TO	1			
			[22]				
1	20	PU58923	OPTICAL BLOCK ASS'Y, INCL. 1 AND 21-33				
_		. 000020	ne sights in the single sign of the sign o				
	21	PU58923-001	IRIS DRIVER UNIT				
7							
7	22	PU58923-002	ZOOM MOTOR UNIT				
7	23	PU58923-003	AF MOTOR UNIT				CASSETTE HOUSING ASSEMBLY [M7]
	24	PU58923-015	FOCUSING RING				
	25	PU58164-031	TAPPING SCREW	1	. 1	PQ31064B	CASSETTE HOLDER ASS'Y
	26	PU58923-022	MOTOR RUBBER, X 4		2	PQ42416-1-2	HOLDER STAY (1)
	27	PU58923-023	TAPPING SCREW, X 4		3	PQ42105	PUSH PLATE, X 2
	28	PU58923-024	ZOOM MOTOR BRACKET	1	4	SSSK1720M	SCREW, X 4
	29	PU58923-025	AF MOTOR BRACKET		5	PQ42109A	HOLDER SHAFT ASS'Y
	30	PU58923-032	AF SENSOR UNIT			PQ40565	
			E NA TRIBO MAROLI PER EMBORO NEVER EE EE EE		6		ATTACHMENT
	31	PU58923-033	TAPPING SCREW, X 3	1 8	7	PQ41450-2	SCREW
				1	8	PQ40566-5	SPRING, RIGHT
	32	PU58923-017	TAPPING SCREW, X 2		9	PQ40566-6	SPRING, LEFT
	33	PU58923-026	TAPPING SCREW, X 2		10	PQ42130A-1-1	LEFT BRACKET ASS'Y
					11	PQ42182	SUB ARM, RIGHT
					12	REE2000	ERING, X 6
				1115	13	PQ42188A	RIGHT BRACKET ASS'Y
					14	PU56781	DAMPER
				1	15	LPSP2006Z	SCREW
					16	PQ40579	SECOND GEAR
					17	PQM30017-14	SLIT WASHER
					18	PQ42193A	OPEN DOOR ASS'Y
					19	PQ42084A	HOLDER STAY ASS'Y
			ELECTRONIC VIEWFINDER ASSEMBLY [M6]		20	PQ41532	TORSION SPRING
			THE POST OF THE PROPERTY (MO)				
		DI IEO240	TOPCASE		21	PQM30017-16	SLIT WASHER
	1	PU59349	TOP CASE	3	22	REE1500	ERING
	2	PU59366	BOTTOWICASE	19.00	23	PUS28324C	CASSETTE HOUSING ASS'Y,
	3	PU59090-4	CAUTION LABEL, HIGH VOLTAGE	18			
			CAUTION	12.13			
	4	PU59524-2	NAME LABEL				
	5	PU59090-6	BUSHING	E			
	6	PU59090-7	PLATE				
	7	PU59090-8	SPACER				
	8	PU59090-9	TAPPING SCREW	1			
				-			
	9	PU59090-10	BRACKET				
	10	PU59090-11	TAPPING SCREW, X 2				

Δ	ner.	NO.	PART NO.	PART NAME, DESCRIPTION	# 1	REF.NO.	PART NO.	PART NAME, DESCRIPTION
• •					A	CP1	ICP-F15	CIRCUIT PROTECTOR
			PU11348E-2-C	MAIN BOARD ASS'Y [01]	A		ICP-F20	CIRCUIT PROTECTOR
						CP3	ICP-F20	CIRCUIT PROTECTOR
	- RE	GUL	ATOR SECTION -		A		ICP-F15	CIRCUIT PROTECTOR
						CP5	ICP-F20	CIRCUIT PROTECTOR
1	IC1		S-81250AG	INTEGRATED CIRCUIT	4.3	Crs	AD ARMANT	CINCOIT PROTECTOR
						TP	PU56278	TEST DIN TRI 2
	Q1		DTA124EK	CHIP DIGITAL TRANSISTOR		TP.	PU56278	TEST PIN, TP1, 2
		OR	UN2112	CHIP DIGITAL TRANSISTOR	182			
	Q2		DTA124EK	CHIP DIGITAL TRANSISTOR				
		OR	UN2112	CHIP DIGITAL TRANSISTOR	A	DC CONV	PU58603-2-1	DC-DC CONVERTER
	Q3		2SD601	CHIP TRANSISTOR	1			
	Q4		2SD601	CHIP TRANSISTOR				
					1	055110		
						- SERVO	SECTION -	
	D1		ERA81-004	DIODE		IC101	BA8526K	FLATIC
	D2		RD3.9M-T1B	CHIP ZENER DIODE	1	OR	BA8527K	FLATIC
						IC102	BAF6305	FLATIC
	D3		RD5.6M-T2B	CHIP ZENER DIODE	a barbar	IC103	PU22441A-2-C	F/V MOD. (JC001)
	D4	-	MA151WK	CHIP DIODE	100			
		UR	DAN202K	CHIP DIODE		IC104	M51797FP	FLATIC
	D5		MA151WK	CHIP DIODE		IC105	M50252FP	FLAT IC
		OR	DAN202K	CHIP DIODE		IC106	M51722FP	FLATIC
						IC107	M54643L	INTEGRATED CIRCUIT
						IC108	AFC74A001X1	INTEGRATED CIRCUIT
	R1		QRD167J-125	CR				
	R2		QRSA08J-684YN	CHIP R				
	R3		QRSA08J-100YN	CHIP R		Q101	2SK621	CHIP DIGITAL FET
	R4		QRSA08J-121YN	CHIP R	THE RES	Q102		
	R5		QRSA08J-271YN	CHIP R		0103		THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT N
	R6		QRSA08J-102YN	CHIP R		Q104	2SD601	CHIP TRANSISTOR
	R7		QRSA08J-102YN	CHIP R	-		2SC2412K	CHIP TRANSISTOR
	R8		QRSA08J-125YN	CHIP R		Q105	2SB709	CHIP TRANSISTOR
			G110A003-125 T IV	Contract to the contract of th			2SA1037K	
					1	Q106	2SB709	CHIP TRANSISTOR
					10 10 10			CHIP TRANSISTOR
	C1				Nego.		2SA1037K	CHIP TRANSISTOR
	C1		-			Q107	2SD601	CHIP TRANSISTOR
	C2		QEK41CM-476	E CAP			2SC2412K	CHIP TRANSISTOR
	C3		QEK41CM-476	E CAP		Q108		
	C4		QED41CM-476	E CAP	100	Q109	-	
	C5		QED41CM-476	E CAP		Q110	2SB709	CHIP TRANSISTOR
	C6		QED41AM-826	E CAP		OR	2SA1037K	CHIP TRANSISTOR
	C7		QED41AM-826	E CAP	A Property			
	C8		QEMA1AM-107	E CAP		Q111	2SK621	CHIP DIGITAL FET
						Q112	2SK621	CHIP DIGITAL FET
						Q113	2SK621	CHIP DIGITAL FET
					1	Q114	_	TVALUED BE STORE
1	RY1		PU56400-2	RELAY		Q115	2SA1365-T1G	CHIP TRANSISTOR
						OR	2SB710S	CHIP TRANSISTOR
						OR	2SA1036KT-96R	CHIP TRANSISTOR
							2SB624-T1BBV5	CHIP TRANSISTOR
	JACK	1	PU57179	DC JACK	1 1 1 1	Q116	2SA1365-T1G	CHIRTRANSISTOR
				usp Selverske Selvers			2SA1036KT-96R	CHIP TRANSISTOR
					1		2SB624-T1BBV5	CHIP TRANSISTOR
					1 6		2SB710S	CHIRTRANSISTOR
1	F1		QMF51E2-3R15	FUSE		Q117	2SA1365-T2G	CHIP TRANSISTOR
-			0.122-01110	(NOT INCL. IN MAIN BOARD ASS'Y)			2SA1036KT-97R	CHIP TRANSISTOR
1	FC1		PU57505				2SB624-T2BBV5	CHIP TRANSISTOR
-			. 557555	FUSE CLIP, FOR F1, X2			2SB710S	CHIP TRANSISTOR
						Q118	2SA1365-T2G	
							2SA1036KT-97R	CHIP TRANSISTOR CHIP TRANSISTOR
							TIEL MUCHINGS	THE TENDENCE OF THE PARTY OF TH
							2SB624-T2BBV5	CHIP TRANSISTOR

		PART NO.	PART NAME, DESCRIPTION	# 🗥		PART NO.	PART NAME, DESCRIPTION	
Q119		2SK621	CHIP DIGITAL FET	64.68	R137	QRSA08J-103YN	CHIP R	115
Q120		2SK621	CHIP DIGITAL FET	1 1	R138	BUTTE A DESCRIPTION	and a second of the second	
			Name of the Park o	1	R139			
0121		2SB709	CHIP TRANSISTOR	1	R140	_	- 15 META 17	
		2SA1037K	CHIP TRANSISTOR					
0122		2SD601	CHIP TRANSISTOR		R141	the state of the state of		
		2SC2412K	CHIP TRANSISTOR		R142	_		
	011	200241210	om manoron	1 12	R143	The state of the s		
					R144			1
				1	R145			
							Maria - Maria Maria	
D101		DA204K	CHIP DIODE		R146	PELON-THE THEOD		
D102		-			R147		SBHO - SHALL TRAIL	
D103		The state of the s			R148	Been at the American	MARCE - LANGE AT HIS PARTY NO.	
D104		DAP202K	CHIP DIODE	13. 35	R149	QRSA08J-105YN	CHIPR	
				1913	R150	QRSA08J-224YN	CHIP R	
				18				
			AND SHAPE OF STREET		R151	QRSA08J-683YN	CHIPR	
0101		ODCAGO HOSTON		1	R152	QRSA08J-223YN	CHIP R	
R101		ORSAD81-103YN	CHIB H	1 5 10	R153		divor - Transfer	
R102		QRSA08J 103YN	CHIP R	1	R154	QRSA08J-105YN	CHIP R	
R103		- 17 24 30	Who are		R155	QRSA08J-224YN	CHIP R	
R104			- Levenson L. W. F.	100	R156		a strain some some	
R105		PU59237-224	CHIP VR PB SW POINT	1		OBSAGGI 103VA	CHIRB	
	OR	PU57816-2-224	CHIP VR	1	R157	QRSA08J-103YN	CHIP R	
	OR	QVZ3606-224	CHIPVR		R158	QRSA08J-105YN	CHIP R	
	OR	PU59456-224	CHIP VR	1	R159	QRSA08J-224YN	CHIPR	
R106		QRSA08J-184YN	CHIPR		R160	QRSA08J-473YN	CHIPR	
R107		THOU DO NOT HER LA	THE PERSONAL PROPERTY.	10 13				
R108		ODCAODI 104VNI	CHIP R	1	R161	QRSA08J-393YN	CHIPR	
R109		QRSA08J-104YN PU59237-683			R162	QRSA08J-105YN	CHIPR	
1109			CHIP VR, REC SW POINT	109	R163	QRSA08J-154YN	CHIPR	
		PU57816-2-683	CHIP VR		R164	QRSA08J-334YN	CHIPR	
		PU59456-683	CHIP VR	1	R165	QRSA08J-184YN	CHIP R	
R110		QRSA08J-104YN	CHIP R		R166	QRSA08J-334YN	CHIP R	
				9	R167			
R111		PU59237-683	CHIP VR, EP CTL DELAY			QRSA08J-104YN	CHIP R	
	OR	PU57816-2-683	CHIP VR	No. of Parties	R168	QRSA08J-563YN	CHIP R	
	OR	PU59456-683	CHIP VR	1	R169	QRSA08J-104YN	CHIP R	
R112		QRSA08J-124YN	CHIP R		R170	QRSA08J-474YN	CHIPR	
R113		PU59237-683	CHIP VR, SP CTL DELAY					
	OR	PU57816-2-683	CHIP VR		R171			
	OR	PU59456-683	CHIP VR	1	R172	-		
R114		QRSA08J-124YN	CHIP R	1	R173		A - British to to and the	
R115		_			R174	QRSA08J-182YN	CHIP R	
				1	R175	QRSA08J-221YN	CHIP R	
				1	R176	QRSA08J-221YN	CHIPR	
0110				17	R177	QRSA08J-472YN	CHIP R	
R118				A Part	R178	QRSA08J-183YN	CHIPR	
R119		-		1	R179	QRSA08J-333YN	CHIP R	
R120		QRSA08J-473YN	CHIPR		R180	QRSA08J-183YN	CHIP R	
						2.10.1000 100114		
R121		QRSA08F-224YN	CHIP R		B101	OPSAGGLACOVAL	CHIRD	
R122		QRSA08F-153YN	CHIP R		R181	QRSA08J-223YN	CHIP R	
R123		QRSA08J-104YN	CHIP R		R182	QVZ3606-333	CHIP VR, TRACKING PRESET	
R124		QRSA08J-334YN	CHIP R		R183	QRSA08J-102YN	CHIPR	
R125		QRSA08J-102YN	CHIP R	1	R184	QRSA08J-102YN	CHIPR	
R126		AD TERRARITY	THE THE STATE OF T		R185	PU56399-4	VR, TRACKING VR, 500 K	
R127		E VECTORS SET	THE PARTY OF THE P		R186		ADOUT - STANFALL TO	
R128		QRSA08J-561YN	CHIP R	-	R187	PU59237-333	CHIP VR, CAP. SAMPLING	
R129		QRSA08J-105YN	CHIP R	The state of	OR	PU57816-2-333	CHIP VR	
R130		QRSA08J-104YN	CHIP R	19 6	OR	PU59456-333	CHIP VR	
		STATE LANCE TO	no tradition of the same		R188	QRSA08J-153YN	CHIPR	
B121		OBSANGLIZZIVAL	CHIP B		R189	QRSA08J-822YN	CHIP R	
R131		QRSA08J-221YN	CHIPR		R190	QRSA08J-333YN	CHIP R	
R132		QRSA08J-102YN	CHIPR	197 4		2.10.100.000 TN		
R133		QRSA08J-105YN	CHIP R		D40:			
R134		QRSA08J-223YN	CHIPR		R191	-		
R135		QRSA08J-102YN	CHIPR	1302 1 76	R192	QRSA08J-102YN	CHIP R	
		QRSA08J-103YN	CHIP R	130	R193	QRSA08J-473YN	CHIPR	

	TEF, NO.	PART NO.	PART NAME, DESCRIPTION	# 🗥	REF. NO.	PART NO.	PART NAME, DESCRIPTION	
F	R194	QRSA08J-105YN	CHIP R		C111	QEE81 AM-226	T CAP	
	R195	QRSA08J-105YN	CHIPR		C112	QFJ41HJ-683	MY CAP	
	1196	QRSA08J-103YN	CHIP R					
	3197	QRSA08J-223YN	CHIP R	1	C113	QFZ9011-104	MP CAP	
	1198				C114	QFJ41HJ-223	MY CAP	
		QRSA08J-822YN	CHIP R		C115	QCDA1EM-333	CHIP CAP	
	7199	QRSA08J-103YN	CHIP R	183	C116	QCSA1HJ-391	CHIP CAP	
1	7200	QRSA08J-103YN	CHIP R		C117	QCYA1HK-102	CHIP CAP	
					C118	QCSA1HJ-681	CHIP CAP	
	7201	QRSA08J-103YN	CHIP R	1	C119	QER40JM-107	E CAP	
F	7202	QRSA08K-4R7YN	CHIP R	3396	C120	QER41CM-106	E CAP	
F	R203	QRSA08K-4R7YN	CHIP R					
F	R204	QRSA08J-181YN	CHIP R	136	C121	QCSA1HJ-221	CHIP CAP	
F	205	QRSA08J-181YN	CHIP R	1	C122	QER41HM-105	E CAP	
F	R206	QRSA08K-4R7YN	CHIP R		C123	QCYA1HK-103	CHIP CAP	
F	3207	QRSA08K-4R7YN	CHIPR		C124	QER40JM-476	E CAP	
	3208	QRSA08J-102YN	CHIP R		C125	QCYA1HK-102		
	3209						CHIP CAP	
	3210	QRSA08J-103YN	CHIP R	1 .	C126	QCFA1EZ-104	CHIP CAP	
	1210	Q115A005-105114			C127	QER40JM-476	E CAP	
	2211	0004001000111	CHILD B	18	C128	677	Carlos Transaction and Carlos	
	R211	QRSA08J-223YN	CHIP R		C129	VX /	Free service	
	7212	QRSA08J-102YN	CHIP R		C130	7-1	Free service manuals Gratis school	
F	R213	QRSA08J-104YN	CHIP R	18.18	(Gratis schema's	
F	3214	QRSA08J-472YN	CHIP R	1000	C131		Diago	
F	R215	-			C132		Digitized by	
F	3216	QRSA08J-OROY	CHIP R		C133	www.freeson	icemanuals.info	
F	R217	_			C134	- COCTV	Icemannet	
	3218	PU59237-103	CHIP VR, DRUM PULSE		C135	SHEETSHEET HACHE	anuals.info	
		PU57816-2-103	CHIP VR		C136	QEL41EM-475	E CAP	
		PU59456-103	CHIP VR	D 19	C137	QEL41EM-475		
		PU59456-103	CHIF VII			GEL41EW-475	E CAP	
	R219		NOT THE THE PROPERTY OF THE PARTY OF THE PAR		C138	microsof Carlie	Manual Tolling September 2005	
ł	R220	7		1.69	C139	QFZ0095-104	MP CAP	
				19.50	C140	FO ISSUED	T	
F	3221	-						
F	R222	_	HERD ALL STORE BOARDS TO LEGISLATION		C141	QEL40CM-106	E CAP	
F	3223	QRSA08J-223YN	CHIP R	1	C142	QEL40CM-106	E CAP	
F	R224				C143	QFZ9011-334	MP CAP	
	3225	_			C144	QCFA1EZ-104	CHIP CAP	
	3226	QRSA08J-332YN	CHIP R					
	3227	QRSA08J-332YN	CHIP R		C145	QER40JM-476	E CAP	
					C146	QER41CM-106	E CAP	
	3228	QRSA08J-332YN	CHIP R	1	C147	QER41CM-106	E CAP	
F	R229	QRSA08J-332YN	CHIPR	1	C148	QER40JM-476	E CAP	
				100	C149	QFZ0095-393	MP CAP	
					C150	QFZ0096-104	MP CAP	
					OR	QFZ0095-104	MP CAP	
	TH101	ERT-D2FIK-154S	THERMISTOR				•	
			AND THE SECOND STREET, SECOND STREET	1	0151	050441	FOAR	
				1 10	C151	QER41HM-105	E CAP	
			AD 5 THE RESIDENCE OF THE PARTY		C152	-		
	2101	00040010001	CLUBB		C153	QCYA1HK-102	CHIP CAP	
	B101	QRSA08J-0R0Y	CHIP R	1	C154	QER41HM-225	E CAP	
	B102	- 0/	SHAM - SHE CHOSS HE WAS SHED IN		C155	QCSA1HJ-331	CHIP CAP	
1	B103	- 100 100	MILES - ENGLISHEAYON NO. POST		C156	QCSA1HJ-101	CHIP CAP	
1	B104	QRSA08J-0R0Y	CHIP R		C157	QCFA1EZ-104	CHIP CAP	
1	B105	QRD161J-0R0	CR	No.	C158	QCFA1EZ-104	CHIP CAP	
					C159	QEPA1CM-106		
					C160	-		
					0100			
(C101	QCYA1HK-103	CHIP CAP		0	0011111111111111		
	C102	QCYA1HK-103	CHIP CAP		C161	QCYA1HK-102	CHIP CAP	
	0103	QER41EM-475	E CAP		C162	-	CHANGE - CORESTORNE NO	
	C104	QFN41HJ-682	MY CAP		C163	QCYA1HK-332	CHIP CAP	
	2105	QER41EM-475	E CAP		C164	QCYA1EK-223	CHIP CAP	
				14.17	C165	QCYA1EK-223	CHIP CAP	
	2106	QCSA1HJ-391	CHIP CAP		C166	QCYA1EK-223	CHIP CAP	
	C107	QFJ41HJ-273	WIT CAP		C167	QCYA1HK-102	CHIP CAP	
	C108	QFZ9011-224	MP CAP		C168	QCSA1HJ-151	CHIP CAP	
	C109	QFG42AJ-333	PP CAP		C169	QCFA1EZ-104	CHIP CAP	
,								

X'TA	L1	PU47701	CRYSTAL	HILL THE		R321		QRSA08J-681YN	CHIPR		
				High Coll		R322		PU59237-222	CHIP VR,	7,00,0,0,0	
				GIO.			OR	PU57816-2-222	CHIP VR		
TP		PU56278	TEST PIN, TP101-117	4100			OR	PU59456-222	CHIPVR		
		F 030270	med the Maladac	319	1 545	R323		QRSA08J-392YN	CHIPR		
				HID!	1	R324		QRSA08J-124YN	CHIPR		
				112		R325		QRSA08J-221YN	CHIPR		
A11	DIO 6	SECTION -		9110	I FIT	R326		QRSA08J-103YN	CHIPR		
- 40	010 3	SECTION -		c115	1 30%	R327		QRSA08J-273YN	CHIPR		
0201		ANIZODING	FLATIO REPUBLISHED	And the		R328		QRSA08J-102YN	CHIPR		
C301		AN3991NS	FLAT IC			R329		QRSA08J-222YN	CHIPR		
C302		7VT10	INTEGRATED CIRCUIT	1910		R330			1911/2		
				20 10		R331			Anna In		
					11 24	R332			111 - L		
2301		-	one - cor various	artine and the	1 80	R333		QRSA08J-105YN	CHIPR		
2302		2SK621	CHIP DIGITAL FET								
	OR	DTC144EK	CHIP DIGITAL TRANSISTOR			R334		QRSA08J-103YN	CHIPR		
	OR	2SC3395	CHIP DIGITAL TRANSISTOR		F 331	R335		QRSA08J-560YN	CHIPR		
2303		2SK621	CHIP DIGITAL FET	THE REAL PROPERTY.		R336		QRSA08J-103YN	CHIPR		
		DTC144EK	CHIP DIGITAL TRANSISTOR		A BUS	R337		QRSA08J-102YN	CHIPR		
		THE PARTY OF THE P	CHIP DIGITAL TRANSISTOR	19 4	1	R338		QRSA08J-392YN	CHIPR		
2304		25K621 811191132 21	CHIP DIGITAL FET		1	R339		QRSA08J-102YN	CHIPR		
		DTC144EK	CHIP DIGITAL TRANSISTOR	ALUD TO S	1	R340		QRSA08J-823YN	CHIPR		
		2SC3395	CHIP DIGITAL TRANSISTOR	2213	A HE						
2205		2SK621	- ITC recover	DE LOS	N. A.	R341		QRSA08J-103YN	CHIPR		
2305		Tayett	CHIP DIGITAL FET	PE13		R342		-	_		
		DTC144EK	CHIP DIGITAL TRANSISTOR	0.00	H	R343		Shall all as Pro The	400 -		
		2SC3395	CHIP DIGITAL TRANSISTOR	e013		R344		QVZ3606-683	CHIP VR	AUDIO BIAS LEVEL	
2306		2SK621	CHIP DIGITAL FET	COTO		R345		QRSA08J-100YN	CHIPR		
		DTC144EK	CHIP DIGITAL TRANSISTOR	ners'		R346		QRSA08J-123YN	CHIPR		
		2SC3395	CHIP DIGITAL TRANSISTOR	100	1	R347			_		
2307		2SD601	CHIP TRANSISTOR			R348		QRSA08J-0R0Y	CHIPR		
2308		2SD601	CHIP TRANSISTOR			R349		QRSA08J-103YN	CHIPR		
2309		2SB709	CHIP TRANSISTOR			R350		QRSA08J-122YN	CHIPR		
2310		DTA124EK	CHIP DIGITAL TRANSISTOR	1940	- 33	H350		QH3A003-12211V	CHIEN		
	OR	UN2112	CHIP DIGITAL TRANSISTOR	PAID	1						
				Day 9		R351			-		
2311		2SK621	CHIP DIGITAL FET	ARIO		R352		-	_		
	OR	DTC144EK	CHIP DIGITAL TRANSISTOR	AND A TH		R353		QRD163J-0R0	CR		
	OR	2SC3395	CHIP DIGITAL TRANSISTOR	action - 1		R354		QRD163J-0R0	CR		
2312		DTA124EK	CHIP DIGITAL TRANSISTOR	A POTO	6 9						
		UN2112	CHIP DIGITAL TRANSISTOR	SMO S							
	On	0142112	1914	10							
				na ro	1	C301		QER40JM-476	E CAP		
301		QRSA08J-220YN	CHIPR			C302					
302		QRSA08J-103YN	CHIPR		1	C303		QER41EM-335	E CAP		
R303		QRSA08J-153YN	CHIPR			C304		QER40JM-226	E CAP		
304		QRSA08J-223YN	CHIP R						CHIP CAL		
305		QRSA08J-223YN	CHIPR	1885		C305		QCSA1HJ-121			
R306		QRSA08J-121YN	CHIP R	1810		C306		QER41HM-474	E CAP		
R307		QRSA08J-822YN	CHIP R	PARO .		C307		QCYA1HK-332	CHIP CAP		
R308		QRSA08J-103YN		eero .		C308		QFZ9011-563	MP CAP		
R309		QRSA08J-OROY		atro Cute		C309		QCYA1HK-103	CHIP CAP		
310		QRSA08J-0R0Y	CHIP R			C310		QER41EM-335	E CAP		
		940		Seed all							
R311		QRSA08J-122YN		2319		C311		QER41EM-335	E CAP		
R312		QRSA08J-561YN		0.11.0	100	C312		QER41HM-474	E CAP		
R313		QRSA08J-181YN	CHIP R								
R314				670		C313		QER41CM-106	E CAP		
1314		PU59237-103	CHIP VR, AUDIO REC LEVEL			C314		OCYA1EK-223	CHIP CAP	THE HIAMPINES	
		PU57816-2-103	CHIP VR		7 11	C315		QER41HM-474	E CAP		
		PU59456-103	O.I.I. 111			C316		QER41CM-106	E CAP		
R315		QRSA08J-682YN		- B		C317		QER41HM-474	ECAP		
R316	1950	QRSA08J-472YN	Cilli II			C318		QER40JM-336	E CAP		
R317	The state of	QRSA08J-392YN	01111	1937)		C319		QCYA1HK-392	CHIP CAP		
R318		QRSA08J-103YN	Citir it	earth a	9 2	C320		QCSA1HJ-681	CHIP CAF		
R319	1	QRSA08J-222YN	CHIPR	satte							
			CHIP B								

A REF. NO	D. PART NO.	PART NAME, DESCRIPTION	# 🛆	REF. N	10.	PART NO.	PART NAME, DESCRIPTION	
C321		ETHORD _TYPEST/ISBARTIO SORT		D401		MA151WK	CHIP DIODE	
C322		Henrico Division Laboratoria vicalia		D402		MA151WA		
	OFP41114 104						CHIP DIODE	
C323	QER41HM-104			D403		MA151WA	CHIP DIODE	
C324	-	wantes = zouranyaub = sout	1	D404		MA151A	CHIP DIODE	
C325	QER41HM-225	E CAP		D405		-	THE REPORT OF THE PROPERTY OF THE PARTY OF T	
C326	QER40JM-226	E CAP		D406		-		
C327	QER41HM-225	E CAP		D407		MA3075M	CHIP ZENER DIODE	
C328	QER40JM-226	E CAP	1	(OR	MA3075H	CHIP ZENER DIODE	
C329	QCSA1HJ-471	CHIP CAP				RD7.5M-T1B2	CHIP ZENER DIODE	
C330	QCSA1HJ-471	CHIP CAP	1					
0330	QC3ATH3471	CHIP CAP			חכ	RD7.5M-T1B3	CHIP ZENER DIODE	
				D408		MA151WA	CHIP DIODE	
C331	QER41AM-336	E CAP						
C332	QFZ9011-823	MP CAP						
C333	QCSA1HJ-471	CHIP CAP						
C334	QCYA1HK-822	CHIP CAP		R401		QRSA08J-153YN	CHIP R	
C335	_			R402		QRSA08J-153YN	CHIP R	
C336	QER41HM-224	E CAP	1					
		E CAP		R403		QRSA08J-153YN	CHIP R	
				R404		QRSA08J-103YN	CHIP R	
				R405		QRSA08J-103YN	CHIPR	
			-	R406		QRSA08J-223YN	CHIP R	
L301	PU56197-2	EQUALIZER	-	R407		QRSA08J-153YN	CHIP R	
L302	PU58610	TRAP COIL		R408		A FEBRUAR	OHSASSI PARKS	
L303	PU55843-331K	CHIP COIL		R409		A A	REEL AN STOLENA PRO	
L304	PU58611	OSC COIL	1			三年 1	THO HYDOTESCARD AND	
L305	PU55843-101K	CHIP COIL		R410			STREET STREET STREET	
L305	FU55843-101K	CHIP COIL						
			100	R411		QRSA08J-102YN	CHIPR	
				R412		QRSA08J-102YN	CHIPR	
			No. of London	R413		QRSA08J-102YN	CHIPR	
TP	PU56278	TEST PIN, TP302-305		R414		QRSA08J-105YN	CHIER	
				R415		QRSA08J-104YN	CHIP R	
				R416		QRSA08J-104YN	CHIPR	
MECH	ACON SECTION -			R417		QRSA08J-104YN	CHIPR	
- WECH	ACON SECTION -			R418		QRSA08J-104YN	CHIPR	
			-	R419		QRSA08J-104YN	CHIPR	
1C401	HD6305Y0A76F	FLAT IC	1	R420		QRSA08J-104YN	CHIP R	
IC402	-		10-5					
IC403	MN74HC244S	FLATIC	176	R421		QRSA08J-104YN	CHIP R	
0	R SN74HC244NS	FLAT IC		R422		QRSA08J-104YN	CHIP R	
IC404	MN74HC244S	FLATIC	125					
	R SN74HC244NS	FLAT IC		R423		QRSA08J-474YN	CHIPR	
IC405	MN74HC244S	FLATIC	18	R424		QRSA08J-105YN	CHIPR	
			201	R425		QRSA08J-153YN	CHIPR	
	R SN74HC244NS	FLAT IC		R426		QRSA08J-102YN	CHIPR	
IC406	BA6109U2	INTEGRATED CIRCUIT		R427		QRSA08J-153YN	CHIPR	
IC407	AN6564NS	FLAT IC	1	R428		QRSA08J-153YN	CHIP R	
IC408	MN4071BS	FLATIC		R429		QRSA08J-102YN		
IC409	MN4069UBS		The said				CHIP-R	
		FLATIC		R430		QRSA08J-102YN	CHIP R	
IC410	MN4011BS	FLATIC	1					
				R431		QRSA08J-105YN	CHIP R	
IC411	MN4081BS	FLAT IC		R432			THE TAXES SEEN SHIP	
			100	R433		QRSA08J-474YN	CHIPR	
							CHIP R	
				R434		QRSA08J-123YN	CHIPR	
Q401				R435		QRSA08J-224YN	CHIP R	
	201/021	OUR DISTANCE OF THE PROPERTY O		R436		PU59237-154	CHIP VR, BATTERY ALARM	
Q402	2SK621	CHIP DIGITAL FET	1	. (S	PU57816-2-154	CHIP VR	
Q403	2SK621	CHIP DIGITAL FET		. (OR	PU59456-154	CHIP VR	
Q404	2SK621	CHIP DIGITAL FET						
Q405	2SK621	CHIP DIGITAL FET	1	R437		QRSA08J-184YN	CHIPR	
Q406	2SK621	CHIP DIGITAL FET		R438		QRSA08J-474YN	CHIP R	
				R439		QRSA08J-823YN	CHIP R	
Q407	2SK621	CHIP DIGITAL FET	1	R440		QRSA08K-475YN	CHIP R	
Q408	2SK621	CHIP DIGITAL FET						
Q409	2SK621	CHIP DIGITAL FET		BAAA		OBS 400 L 102 VA	CHIRR	
Q410	2SK621	CHIP DIGITAL FET		R441		QRSA08J-103YN	CHIP R	
				R442		QRSA08J-105YN	CHIP R	
Q411	2SK621	CHIP DIGITAL FET	1	R443		QRSA08J-103YN	CHIP R	
	2SK621	CHIP DIGITAL FET		R444		QRSA08J-103YN	CHIPR	
Q412								

REF. NO.	PART NO.	PART NAME, DESCRIPTION	# A REF. NO.	PART NO.	PART NAME, DESCRIPTION
R446	QRSA08J-181YN	CHIPR	R505	QRSA08J-103YN	CHIP R
R447	QRSA08J-105YN	CHIP R	R506	QRSA08J-102YN	CHIP R
R448	QRSA08J-684YN	CHIRR			
R449		CHIRR	R507	QRSA08J-102YN	
	QRSA08J-105YN	CHIPR	R508	QRSA08J-102YN	CHIPR
R450	QRSA08J-102YN	CHIP R	R509	QRSA08J-102YN	CHIP R
			R510	QRSA08J-125YN	CHIP R
R451	QRSA08J-105YN	CHIP R			
R452	QRSA08J-125YN	CHIP R	R511	QRSA08J-102YN	CHIP R
R453	QRSA08J-105YN	CHIPR	R512	QRSA08J-102YN	CHIP R
R454	_	-	R513	QRSA08J-102YN	CHIP R
R455	QRSA08J-153YN	CHIPR	R514		
R456	QRSA08J-153YN			QRSA08J-271YN	CHIP R
		CHIPR	R515	QRSA08J-102YN	CHIP R
R457	QRSA08J-153YN	CHIPR			
R458	_		C401	QCFA1EZ-104	CHIP CAP
R459	QRSA08J-102YN	CHIP R	C402	QCFA1EZ-104	CHIP CAP
R460	-	with Townsteament of the	C403	_	
			C404	_	deres - keep many the co
R461	QRSA08J-102YN	CHIP R	C405	4	
R462	QRSA08J-102YN	CHIP B	C406	QCFA1HZ-473	CHIP CAP
R463	QRSA08J-102YN	CHIP R			
			C407	QCYA1HK-222	CHIP CAP
R464	QRSA08J-564YN	CHIPR	C408	- 1930	490 1.0 5 18 18 19 10 10 10 10 20
R465	QRSA08J-104YN	CHIPR	C409	T. 180	MANY - NEWSTANDS - DES
R466	QRSA08J-225YN	CHIP R	C410	70.5	FOR THE RESERVE AND A LOCAL OF THE PARTY OF
R467	QRSA08J-102YN	CHIPR			
R468	QRSA08J-104YN	CHIP R	C411	_	- corrector to the
R469	QRSA08J-102YN	CHIP R	C412	QCFA1EZ-104	CHIP CAP
R470	QRSA08J-104YN	CHIP R	C413	QER41HM-105	E CAP
		(1995年) A 《《自然·经验》(1995年) - 《1995年			
R471	QRSA08J-102YN	CHIP R	C414	QCSA1HJ-270	CHIP CAP
			C415	QCSA1HJ-270	CHIP CAP
R472	QRSA08J-104YN	CHIPR	C416	QCFA1EZ-104	CHIP.CAP
R473	QRSA08J-102YN	CHIP R	C417	QEF81AM-475	CHIP T CAP
R474	QRSA08J-104YN	CHIP R	C418	QCYA1HK-103	CHIP CAP
R475	QRSA08J-102YN	CHIPR	C419	QCFA1EZ-104	CHIP CAP
R476	-	area - a summer and a summer and a	C420	QCSA1HJ-561	CHIP CAP
R477	QRSA08J-104YN	CHIP R			
R478	QRSA08J-104YN	CHIP R			
R479	QRSA08J-222YN	CHIPR			
R480	QRSA08J-102YN	CHIP R	L401	PU59188-101K	CHIP COIL
11400	Q113A003-102114	CHIP H	2.0.		THE PERSON NAMED IN THE PARTY OF THE PARTY O
		The design of the second second			
R481	QRSA08J-102YN	CHIPR			
R482	QRSA08J-102YN	CHIPR			TO THE REPORT OF THE PARTY OF T
R483	QRSA08J-102YN	CHIP R	CF401	PU58780	CERAMIC FILTER
R484	QRSA08J-102YN	CHIP R	100		
R485	QRSA08J-102YN	CHIP R			
R486	QRSA08J-102YN	CHIP B			Fair South Street, Str
			⚠ TH401	PU52108-2R2	POSISTOR
R487	QRSA08J-102YN	CHIPR			T STORY OF THE STO
R488	QRSA08J-103YN	CHIP R			
R489	QRSA08J-103YN	CHIPR			
R490	QRSA08J-103YN	CHIPR	TO	DUECOZO	TEST DIN TRACE
			TP	PU56278	TEST PIN, TP401
R491	QRSA08J-103YN	CHIP R			
R492	QRSA08J-472YN	CHIP R			
R493	QRSA08J-472YN	CHIPR	SLD1	PQ42544	INSULATOR
R494	QRSA08J-103YN	CHIPR			
R495	QRSA08J-103YN	CHIP R			
R496	QRSA08J-102YN	CHIP R			
R497	QRDA08J-103YN	CHIP R	CN1	PU58655-3	CAR HOUSING
R498	QRSA08J-223YN	CHIP R	CN2	PU58655-3	CAR HOUSING
R499	QRSA08J-103YN				
		CHIPR	CN3	PU58655-2	CAP. HOUSING
R500	QRSA08J-223YN	CHIP R	CN4	PU58655-4	CAP. HOUSING
			CN5A	PU58655-7	CAP. HOUSING
R501	QRSA08J-103YN	CHIP R	CN6	PU58655-2	CAP. HOUSING
R502	QRSA08J-223YN	CHIP R	CN7	PU58250-8	CAP. HOUSING
		CHIP R	CN8	PU58250-10	CAP. HOUSING
R503	CHOMORI-101111				
R503 R504	QRSA08J-103YN QRSA08J-223YN	CHIP R	CN9	PU58250-16	CAP. HOUSING

REF	.NO.	PART NO.	PART NAME, DESCRIPTION	# 🗥	REF.I	١٥.	PART NO.	PART NAME, DESCRIPTION
CN1	OA	PU58655-5	CAP. HOUSING		IC6		BA7241F	FLATIC
CN1		PU58253-7	CAP, HOUSING					
CIVI	UB	1030233-7	CAP. HOUSING		IC7		H8D7004B	FLATIC
					ICB		H8D1927A	INTEGRATED CIRCUIT
CN1	1	PU58250-10	CAP. HOUSING		IC9		H8D7027	INTEGRATED CIRCUIT
CN1	2	PU58250-10	CAP. HOUSING		IC10		THE045A	INTEGRATED CIRCUIT
CN1	3	PU58655-7	CAP. HOUSING					
CN1	4	PU58655-2	CAP. HOUSING		IC11		BA7131F	FLATIC
CN1					1011		BATISTE	PLATIC
		PU58655-3	CAP. HOUSING					
CN1		PU58655-2	CAP. HOUSING					
CN1	/	PU58655-5	CAP. HOUSING	13.70				
CN1	8	PU58655-14	CAP. HOUSING	1700	Q1		DTC144EK	CHIP DIGITAL TRANSISTOR
CN1	9	PU58655-4	CAP. HOUSING		Q2		DTC144EK	CHIP DIGITAL TRANSISTOR
CN2	0	PU58655-4	CAP. HÖUSING		Q3		2SC2412K	CHIP TRANSISTOR
					us	-		
						OR	2SD601	CHIP TRANSISTOR
CN2	1	PU58655-3	CAP. HOUSING	725	Q4		2SC2412K	CHIP TRANSISTOR
				180		OR	2SD601	CHIP TRANSISTOR
					Q5		DTC144EK	CHIP DIGITAL TRANSISTOR
		PU36285A-C	TRACK SHIFT BOARD ASS'Y		Q6		DTC144EK	CHIP DIGITAL TRANSISTOR
			(NOT INCLUDED IN PU11348E-2-C		07		DTC144EK	CHIP DIGITAL TRANSISTOR
				1	08		DTC144EK	CHIP DIGITAL TRANSISTOR
			OF MAIN BOARD ASS'Y)		Q9		2SC2412K	CHIP TRANSISTOR
						OR	2SD601	CHIP TRANSISTOR
					Q10		2SC2412K	CHIP TRANSISTOR
					210	00		
IC10	19	M5223FP	FLAT IC	1		UH	2SD601	CHIP TRANSISTOR
1010					Q11		DTC114YK	CHIP DIGITAL TRANSISTOR
	OH	UPC1251G	FLAT IC	1	Q12		-	
					Q13		_	Helling & Literature and Literature
				1	Q14		2SC2412K	CHIP TRANSISTOR
					414	00		
012	0	2SC2412K	CHIP TRANSISTOR			OH	2SD601	CHIP TRANSISTOR
412				1				
		2SD601	CHIP TRANSISTOR					
Q12	9	2SK621	CHIP DIGITAL FET					
					D1		DAN202K	CHIP DIODE
					DI			
						OH	MA151WK	CHIP DIODE
R11	e	QRSA08J-184YN	CHIPR		D2		DAN202K	CHIP DIODE
						OR	MA151WK	CHIP DIODE
R11	/	QRSA08J-105YN	CHIPR		D3		DAN202K	CHIP DIODE
						OB	MA151WK	CHIP DIODE
				4		011		
R23	5	QRSA08J-273YN	CHIPR	10.00	D4		DAN202K	CHIP DIODE
R23	6	QRSA08J-123YN	CHIP R			OR	MA151WK	CHIP DIODE
					D5		DAN202K	CHIP DIODE
R23		QRSA08J-102YN	CHIPR	100		OR	MA151WK	CHIP DIODE
R23	8	QRSA08J-103YN	CHIP R		De	011		
				1	D6		DAN202K	CHIP DIODE
						OR	MA151WK	CHIP DIODE
					D7		DAN202K	CHIP DIODE
		OBSAGGIODOV	CUID D			OR	MA151WK	CHIP DIODE
B10		QRSA08J-0R0Y	CHIPR					
B10	7	QRD161J-0R0	CR					
				100				
					P1		01160227 102	CHIP VP PEO EM LEVE
				1	R1		PU59237-102	CHIP VR, REC FM LEVEL
				1 1 2		OR	PU59456-102	CHIP VR
					R2		PU59237-473	CHIP VR, WHITE CLIP
						OR	PU59456-473	CHIP VR
				1	R3		PU59237-473	CHIP VR, DARK CLIP
						08	PU59456-473	
					0.1	JII		CHIP VR
					R4		PU59237-153	CHIP VR, CARRIER
						OR	PU59456-153	CHIP VR
					R5		PU59237-103	CHIP VR, DEVIATION
						OR	PU59456-103	CHIP VR
		PU11506A1-02-C	Y/C BOARD ASS'Y [02]		R6			
		PUT1500AT-02-C	170 BOATTO AGG 1 (02)		110	-	PU59237-222	CHIP VR, NOISE CANCEL
						OR	PU59456-222	CHIP VR
IC	1	AN3212S	FLATIC		R7		PU59237-473	CHIP VR, Y LEVEL
IC	2	H8D7025	INTEGRATED CIRCUIT			OR	PU59456-473	CHIP VR
IC		AN3323S	FLATIC	4	R8		PU59237-473	CHIP VR, REC GAIN
						00		
	4	H8DN7026	INTEGRATED CIRCUIT			UR	PU59456-473	CHIP VR
IC			INTEGRATED CIRCUIT					

		PART NO.	PART NAME, DESCRIPTION			PART NO.	PART NAME, DESCRIPTION
R9		PU59237-102	CHIP VR, EE Y LEVEL		R62	ORSA08J-103YN	CHIP R
	OR	PU59456-102	CHIP VR	A NOTE OF	R63	QRSA08J-152YN	CHIP R
R10		PU59237-222	CHIP VR, VIDEO EQ		R64	QRSA08J-103YN	CHIP R
	OR	PU59456-222	CHIP VR	4 3 3	R65	QRSA08J-102YN	CHIP R
					R66	QRSA08J-332YN	CHIP R
R11		PU59237-102	CHIP VR, EE BURST LEVEL		R67	QRSA08J-103YN	CHIP R
	OR	PU59456-102	CHIP VR		R68	QRSA08J-103YN	CHIP R
R12		PU59237-681	CHIP VR, REC COLOUR LEVEL		R69	QRSA08J-471YN	CHIP R
	OR	PU59456-681	CHIP VR		R70	QRSA08J-153YN	
R13	OII	PU59237-102		11 100 7		G113A003-193114	CHIP R
1113	OP	PU59456-102	CHIP VR, BURST LEVEL		R71 :		
R14	On		CHIP VR	And the other states	R72		-
R15		PU59237-473	CHIP VR, AFC		R73	QRSA08J-682YN	CHIPR
1115	00	PU59237-102	CHIP VR, PB COLOUR LEVEL		R74	QRSA08J-0R0Y	CHIP R
D40	OH	PU59456-102	CHIP VR			QRSA08J-0R0Y	CHIP R
R16		QRSA08J-222YN	CHIPR		R75	ORSA08J-0R0Y	CHIP R
R17		QRSA08J-821YN	CHIP R		R76	QRSA08J-0R0Y	CHIPR
R18		QRSA08J-103YN	CHIP R		R77	QRSA08J-0R0Y	CHIP R
R19		QRSA08J-682YN	CHIP R		R78	QRSA08J-0R0Y	CHIP R
R20		QRSA08J-680YN	CHIP R		R79	QRSA08J-0R0Y	CHIP R
					R80	QRSA08J-223YN	CHIP R
R21		QRSA08J-473YN	CHIP R				
R22		QRSA08J-152YN	CHIP R		R81	QRSA08J-153YN	CHIPR
R23		QRSA08J-562YN	CHIP R		R82	QRSA08J-122YN	CHIPR
R24		QRSA08J-332YN	CHIP R		R83	QRSA08J-102YN	CHIPR
R25		QRSA08J-821YN	CHIP R		R84	QRSA08J-122YN	CHIP R
R26		QRSA08J-562YN	CHIP R		R85	QRSA08J-393YN	
R27		QRSA08J-272YN	CHIP R				CHIPR
R28		QRSA08J-393YN	CHIP R		R86	QRSA08J-102YN	CHIP R
R29		QRSA08J-223YN			R87	QRSA08J-152YN	CHIP R
R30			CHIP R	11/1	R88	QRSA08J-0R0Y	CHIP R
130		QRSA08J-102YN	CHIPR		R89	QRSA08J-0R0Y	CHIP R
D24		00010010001			R90	QRSA08J-0R0Y	CHIP R
R31		QRSA08J-223YN	CHIPR				
R32		QRSA08J-332YN	CHIP R		R91	QRSA08J-0R0Y	CHIPR
			THE REPORT OF THE PARTY OF THE		R92 ·	QRSA08J-0R0Y	CHIP R
R33		QRSA08J-681YN	CHIP R		R93	QRSA08J-223YN	CHIPR
R34		-	State - School State 10				
R35		QRSA08J-822YN	CHIP R				
R36		QRSA08J-102YN	CHIP R				
R37		QRSA08J-561YN	CHIP R		C1	ECEV1HV3R3	CHIP E CAP
R38		QRSA08J-471YN	CHIP R		C2	QCYA1HK-103	CHIP CAP
R39					C3	QCYA1HK-103	CHIP CAP
		QRSA08J-471YN	CHIPR		C4	QCSA1HJ-151	CHIP CAP
R40		QRSA08J-153YN	CHIPR		C5		
		Goule				QCYA1HK-103	CHIP CAP
R41		QRSA08J-562YN	CHIP R	10000	C6	QCSA1HJ-5R0	CHIP CAP
R42		QRSA08J-182YN	CHIP R	7.64	C7	QCTA1CH-390	CHIP CAP
R43		ORSA08J-222YN	CHIP R		C8	QEF80JM-476	CHIP T CAP
R44		QRSA08J-122YN	CHIP R		C9	QCSA1HJ-181	CHIP CAP
R45		QRSA08J-272YN	CHIP R		C10	QEF80JM-225	CHIP T CAP
R46		QRSA08J-103YN	CHIP R	275			
R47		QRSA08J-103YN	CHIP R	Top The	C11	QCYA1EK-223	CHIP CAP
R48		QRSA08J-333YN	CHIP R	8. 11	C12	QCSA1HJ-391	CHIP CAP
R49		QRSA08J-473YN	CHIP R		C13	QCSA1HJ-471	CHIP CAP
R50		QRSA08J-222YN	CHIP R		C14	QCSA1HJ-151	CHIP CAP
					C15	QCYA1HK-103	CHIP CAP
R51		QRSA08J-393YN	CHIP R		C16	QCYA1HK-222	CHIP CAP
R52		QRSA08J-393YN	CHIP R		C17	QEF80JM-225	CHIP T CAP
R53		QRSA08J-0R0Y	CHIP R		C18	QEF80JM-475	CHIP T CAP
R54		QRSA08J-122YN	CHIP R		C19		
R55		QRSA08J-122YN	CHIP R	The state of the last		ECEVOJV220	CHIP E CAP
R56		QRSA08J-102YN			C20	QEF81AM-335	CHIP T CAP
R57		QRSA08J-0R0Y	CHIP R		024	0001	
			CHIP R		C21	QCSA1HJ-680	CHIP CAP
R58		QRSA08J-102YN	CHIP R		C22	QEF81AM-105	CHIP T CAP
R59		QRSA08J-331YN	CHIPR		C23	QCYA1HK-103	CHIP CAP
		QRSA08J-102YN	CHIP R	(C24	QCSA1HJ-270	CHIP CAP
R60				100	025	000/44/11/4	
R60				(C25	QCYA1HK-103	CHIP CAP

	10.	PART NO.	PART NAME, DESCRIPTION	# 🛆	REF.	NO.	PART NO.	PART NAME, DESCRIPTION
C27		QCYA1HK-103	CHIP CAP	A	L12		PU58627-101K	CHIP COIL
				A		OR	PU58201-101K	CHIP COIL
C28		QCSA1HJ-390	CHIP CAP		1.12	011		
C29		QCYA1HK-103	CHIP CAP		L13		PU58627-101K	CHIP COIL
C30		QCSA1HJ-120	CHIP CAP			OH	PU58201-101K	CHIP COIL
					L14		PU58627-220J	CHIP COIL
C31		QCYA1HK-103	CHIP CAP			OR	PU58201-220J	CHIP COIL
C32		QCYA1HK-103	CHIP CAP					
C33		QCYA1EK-223	CHIP CAP					
C34		QCYA1HK-103						
			CHIP CAP		DL1		PU59472	1H DELAY LINE
C35		ECEV0JV220	CHIP E CAP		DL2		PU59473	2H COMB FILTER
C36		QCYA1HK-103	CHIP CAP		DLZ		1005475	ZII COMB FILTER
C37		QCYA1EK-223	CHIP CAP					
C38		QCYA1HK-103	CHIP CAP					
C39		ECEV1CV100	CHIP E CAP					
C40		QEF80JM-475	CHIP T CAP		LPF1		PU59474-3	CHIP LOW PASS FILTER
			OTH TOAT		LPF2		PU59475-2	CHIP LOW PASS FILTER
		0554404400	TO DO A COMPANIENCE OF THE PROPERTY OF THE PRO		LPF3		PU59476-2	CHIP LOW PASS FILTER
C41		QER41CM-106	E CAP				. 000 170 2	OTH LOW FASS FILTER
·C42		ECEV1CV100	CHIP E CAP					
C43		QCYA1HK-103	CHIP CAP					
C44		ECEV1CV100	CHIP E CAP					
C45		ECEV0JV220	CHIP E CAP	A CONTRACTOR	HPF1		PU59479-3	CHIP HIGH PASS FILTER
C46		QCYA1HK-103	CHIP CAP					
C47								
		QCYA1HK-103	CHIP CAP					
C48		ECEV1CV100	CHIP E CAP		BPF1		PU59477	CHIP BAND PASS FILTER
C49		QEF81AM-105	CHIP T CAP		BPF2		PU59478	CHIP BAND PASS FILTER
C50		QCSA1HJ-470	CHIP CAP					
C51		ECEV1CV100	CHIP E CAP	ALC: NO.				
C52								
		QCSA1HJ-560	CHIP CAP		EQ1		PU59480-3	CHIP EQUALIZER
C53		QCSA1HJ-680	CHIP CAP		EQ2		PU59031	FH TRAP COIL
C54		QCYA1HK-103	CHIP CAP					
C55		QCYA1HK-103	CHIP CAP					
C56		QCYA1HK-103	CHIP CAP					
C57		QCSA1HJ-330	CHIP CAP					
C58		QCYA1HK-103	CHIP CAP	<u> </u>	X1		PU31449-2	CRYSTAL
C59		PU56274B-200	CHIP TR CAP					
C60		QCYA1HK-103	CHIP CAP					
		-			TD		DUECOZO	
C61		QCYA1HK-103	CHIP CAP	Marie State	TP		PU56278	TEST PIN, TP1 – 15
C62		QCYA1HK-103					3.55 (4.77)	
			CHIP CAP	1 1 1 1 1 1 1 1 1				
C63		ECEVOJV220	CHIP E CAP					
C64		QEF81AM-105	CHIP T CAP		SPC1		PQ42625	SPACER
C65		-					ER PARTY DETERMINE	the control of the second second
CCC		QEF81AM-105	CHIP T CAP					
C66			1917a Jerosa kana o					
C67		001/441/11	CHIP CAP					CAP. HOUSING
		QCYA1HK-103			CN1		PU58655-2	
C67		QCYA1HK-103	THE ALL YOUR DELANDS TO SELECT					
C67		QCYA1HK-103	Mill a livery licharib		CN2		PU58655-2	CHP. HOUSING
C67 C68		QCYA1HK-103	en a lyano batang Biggi		CN2 CN3		PU58655-2 PU58251-10	CHP. HOUSING CAP. HOUSING
C67 C68		QCYA1HK-103 PU59449-101J	CHIP COIL		CN2		PU58655-2	CHP. HOUSING
C67 C68			CHIP COIL CHIP COIL		CN2 CN3		PU58655-2 PU58251-10	CHP. HOUSING CAP. HOUSING
C67 C68		PU59449-101J			CN2 CN3 CN4		PU58655-2 PU58251-10 PU58251-10	CHP. HOUSING CAP. HOUSING CAP. HOUSING
C67 C68 L1 L2 L3		PU59449-101J PU59449-101J	CHIP COIL		CN2 CN3 CN4		PU58655-2 PU58251-10 PU58251-10	CHP. HOUSING CAP. HOUSING CAP. HOUSING
C67 C68 L1 L2 L3 L4 L5		PU59449-101J PU59449-101J PU59449-120J	CHIP COIL		CN2 CN3 CN4		PU58655-2 PU58251-10 PU58251-10	CHP. HOUSING CAP. HOUSING CAP. HOUSING
C67 C68 L1 L2 L3 L4		PU59449-101J PU59449-101J PU59449-120J	CHIP COIL		CN2 CN3 CN4		PU58655-2 PU58251-10 PU58251-10	CHP. HOUSING CAP. HOUSING CAP. HOUSING CAP. HOUSING
C67 C68 L1 L2 L3 L4 L5	OR	PU59449-101J PU59449-101J PU59449-120J PU59449-101J	CHIP COIL CHIP COIL -		CN2 CN3 CN4		PU58655-2 PU58251-10 PU58251-10	CHP. HOUSING CAP. HOUSING CAP. HOUSING CAP. HOUSING
C67 C68 L1 L2 L3 L4 L5	ÖR	PU59449-101J PU59449-101J PU59449-120J PU59449-101J — PU58627-680J PU58201-680J	CHIP COIL CHIP COIL CHIP COIL CHIP COIL CHIP COIL		CN2 CN3 CN4		PU58655-2 PU58251-10 PU58251-10	CHP. HOUSING CAP. HOUSING CAP. HOUSING CAP. HOUSING S/S BOARD ASS'Y (INCLUDED IN PU11506A1-02-C OF
C67 C68 L1 L2 L3 L4 L5 L6		PU59449-101J PU59449-101J PU59449-120J PU59449-101J — PU58627-680J PU58201-680J PU58627-680J	CHIP COIL		CN2 CN3 CN4		PU58655-2 PU58251-10 PU58251-10	CHP. HOUSING CAP. HOUSING CAP. HOUSING CAP. HOUSING S/S BOARD ASS'Y
C67 C68 L1 L2 L3 L4 L5 L6		PU59449-101J PU59449-101J PU59449-120J PU59449-101J — PU58627-680J PU58201-680J PU58201-680J PU58201-680J	CHIP COIL		CN2 CN3 CN4 CN5		PU58655-2 PU58251-10 PU58251-10 PU59636-12	CHP. HOUSING CAP. HOUSING CAP. HOUSING CAP. HOUSING S/S BOARD ASS'Y (INCLUDED IN PU11506A1-02-C OF Y/C BOARD ASS'Y)
C67 C68 L1 L2 L3 L4 L5 L6	OR	PU59449-101J PU59449-101J PU59449-120J PU59449-101J 	CHIP COIL		CN2 CN3 CN4 CN5		PU58655-2 PU58251-10 PU58251-10 PU59636-12	CHP. HOUSING CAP. HOUSING CAP. HOUSING CAP. HOUSING S/S BOARD ASS'Y (INCLUDED IN PU11506A1-02-C OF Y/C BOARD ASS'Y) CHIP TRANSISTOR
C67 C68 L1 L2 L3 L4 L5 L6	OR	PU59449-101J PU59449-101J PU59449-120J PU59449-101J 	CHIP COIL CHIP COIL CHIP COIL CHIP COIL CHIP COIL CHIP COIL CHIP COIL CHIP COIL CHIP COIL CHIP COIL		CN2 CN3 CN4 CN5		PU58655-2 PU58251-10 PU58251-10 PU59636-12	CHP. HOUSING CAP. HOUSING CAP. HOUSING CAP. HOUSING S/S BOARD ASS'Y (INCLUDED IN PU11506A1-02-C OF Y/C BOARD ASS'Y)
C67 C68 L1 L2 L3 L4 L5 L6 L7	OR	PU59449-101J PU59449-101J PU59449-120J PU59449-101J — PU58627-680J PU58201-680J PU58201-680J PU58201-680J PU58627-270J PU58201-270J PU59449-101J	CHIP COIL		CN2 CN3 CN4 CN5		PU58655-2 PU58251-10 PU58251-10 PU59636-12	CHP. HOUSING CAP. HOUSING CAP. HOUSING CAP. HOUSING S/S BOARD ASS'Y (INCLUDED IN PU11506A1-02-C OF Y/C BOARD ASS'Y) CHIP TRANSISTOR
C67 C68 L1 L2 L3 L4 L5 L6 L7 L8	OR OR	PU59449-101J PU59449-101J PU59449-120J PU59449-101J — PU58627-680J PU58201-680J PU58201-680J PU58201-680J PU58201-270J PU58201-270J PU59449-101J PU58627-101K	CHIP COIL CHIP COIL CHIP COIL CHIP COIL CHIP COIL CHIP COIL CHIP COIL CHIP COIL CHIP COIL CHIP COIL		CN2 CN3 CN4 CN5		PU58655-2 PU58251-10 PU58251-10 PU59636-12	CHP. HOUSING CAP. HOUSING CAP. HOUSING CAP. HOUSING S/S BOARD ASS'Y (INCLUDED IN PU11506A1-02-C OF Y/C BOARD ASS'Y) CHIP TRANSISTOR
C67 C68 L1 L2 L3 L4 L5 L6 L7 L8	OR OR	PU59449-101J PU59449-101J PU59449-120J PU59449-101J — PU58627-680J PU58201-680J PU58201-680J PU58201-680J PU58627-270J PU58201-270J PU59449-101J	CHIP COIL		CN2 CN3 CN4 CN5		PU58655-2 PU58251-10 PU58251-10 PU59636-12	CHP. HOUSING CAP. HOUSING CAP. HOUSING CAP. HOUSING S/S BOARD ASS'Y (INCLUDED IN PU11506A1-02-C OF Y/C BOARD ASS'Y) CHIP TRANSISTOR
C67 C68 L1 L2 L3 L4 L5 L6 L7 L8	OR OR	PU59449-101J PU59449-101J PU59449-120J PU59449-101J — PU58627-680J PU58201-680J PU58201-680J PU58201-680J PU58201-270J PU58201-270J PU59449-101J PU58627-101K	CHIP COIL		CN2 CN3 CN4 CN5		PU58655-2 PU58251-10 PU58251-10 PU59636-12	CHP. HOUSING CAP. HOUSING CAP. HOUSING CAP. HOUSING S/S BOARD ASS'Y (INCLUDED IN PU11506A1-02-C OF Y/C BOARD ASS'Y) CHIP TRANSISTOR

	TELLINO.	PART NO.	PART NAME, DESCRIPTION	# ZI HEF.N	O. PART NO.	PART NAME, DESCRIPTION	
	R97	OBS 408 L 472 VAL	CHIP R	R1	QRSA08J-473YN	CHIRD	
		QRSA08J-473YN				CHIP R	
	R98	QRSA08J-103YN	CHIP R	R2	QRSA08J-473YN	CHIPR	
	R99	QRSA08J-155YN	CHIPR	R3	QRSA08J-473YN	CHIPR	
	R100	QRSA08J-0R0Y	CHIP R	R4	QRSA08J-473YN	CHIPR	
				R5	QRSA08J-473YN	CHIP R	
				R6	QRSA08J-104YN	CHIPR	
				R7	QRSA08J-473YN	CHIP R	
			APC BOARD ASS'Y	R8	QRSA08J-473YN	CHIP R	
			(INCLUDED IN PU11506A1-02-C OF	R9	QRSA08J-473YN	CHIP R	
			Y/C BOARD ASS'Y)	R10	QRSA08J-102YN	CHIP R	
			170 BOAND AGO 17	1110	Q113A063-10211V	CHIFT	
1	D8	DAN202K	CHIP DIODE	544	000100110011	SULLIFICATION OF TAXOUR	
	D9	DAN202K		R11	QRSA08J-102YN	CHIPR	
ì	Da	DANZUZK	CHIP DIODE	R12	QRSA08J-102YN	CHIPR	
				R13	-		
				R14	QRSA08J-102YN	CHIP R	
				R15	QRSA08J-102YN	CHIP R	
	R94	QRSA08J-103YN	CHIP R	R16	QRSA08J-104YN	CHIP R	
				R17	QRSA08J-102YN	CHIPR	
					ditorious for five	AND THE REPORT OF	
				R18	90	THE SEC PER CURY SO	
1	R101	QRSA08J-0R0Y	CHIP R	R19	ASSET WEST	wifts to be a realist	
	R102	QRSA08J-0R0Y	CHIP R	R20		title To The Constitute	
		anonoos-ono i	OTHER T	1 10 10			
				R21	QRSA08J-102YN	CHIPR	
				R22	QRSA08J-103YN	CHIPR	
				R23	QRSA08J-102YN	CHIP R	
				R24	QRSA08J-102YN	CHIPR	
				R25	QRSA08J-102YN	CHIPR	
				R26	QRSA08J-102YN	CHIPR	
					Q113A003-102114	THE PERSON NAMED IN	
				R27	_	mat I cold transfeld	
				R28	QRSA08J-333YN	CHIPR	
				R29	QRSA08J-101YN	CHIPR	
		PU22200A-2-C	OPERATION BOARD ASSIV [00]	R30	QRSA08J-102YN	CHIP R	
		1022200A-2-C	OPERATION BOARD ASS'Y [03]				
	101	T11010051105		R31	QRD167J-750	CR	
	IC1	TMS1035NSE	FLAT IC	R32	QRD167J-750	CR	
	IC2	MN4021BS	FLATIC	R33	QRSA08J-0R0Y	CHIP R	
					- 17 SAS RT		
	Q1	2SK621	CHIP DIGITAL FET				
	Q2	-					
	Q3	2SK621	CHIP DIGITAL FET			to it was an a ran	
	Q4	2SK621	CHIP DIGITAL FET	B1	QRSA08J-0R0Y	CHIPR	
	Q5	2SK621	CHIP DIGITAL FET	B2 ·	QRSA08J-0R0Y	CHIPR	
	Q6		orn brottacter	B3	QRSA08J-0R0Y	CHIPR	
	Q7	DTA144EK	CUIP DIGITAL TRANSPORT	84	QRSA08J-0R0Y	CHIPR	
			CHIP DIGITAL TRANSISTOR	85	QRSA08J-0R0Y	CHIPR	
	Q8	2SK621	CHIP DIGITAL FET	B6	QRSA08J-0R0Y	CHIP R	
				87		CHIPR	
				7	QRSA08J-0R0Y		
				88	QRSA08J-0R0Y	CHIPR	
	D1	SI N.210VC74	LED SAD SAD	89	QRSA08J-0R0Y	CHIPR	
		SLN-210VC74	LED				
	D2	SLN-210VC74	LED				
	D3	SLN-210VC74	LED				
	D4	SLN-210VC74	LED	RA1	NRB042J-102N	CHIP RESISTOR ARRAY	
	D5	SLN-210VC74	LED	RA2		CHIP RESISTOR ARRAY	
	D6	SLN-210VC74	LED		NRB042J-102N		
	D7			RA3	NRB042J-102N	CHIP RESISTOR ARRAY	
		MA151A	CHIP DIODE	RA4	NRB042J-102N	CHIP RESISTOR ARRAY	
	D8	DA204K	CHIP DIODE				
	D9	DA204K	CHIP DIODE				
	D10	- 10 100 100					
				C1	QCFA1EZ-104	CHIP CAP	
	D11	RD5.6M-T1B	CHIP ZENER DIODE	C2	QEF80JM-225	CHIP T CAP	
	D12	RD5.6M-T2B	CHIP ZENER DIODE	C3	QCFA1EZ-104	CHIP CAP	
	D13				40, 11, 62, 104	The Charles of the Ch	
	D14	MA151A	CHIP DIODE	C4	113	Strike Strike Strike Strike	
			CHIP D10DE	C5		other Toring goussily alo	
				C6	QER40GM-227	E CAP	
				C7	QEK40JM-337	E CAP	

REF.NO.	PART NO.	PART NAME, DESCRIPTION	# 1	REF.NO.	PART NO.	PART NAME, DESCRIPTION
C9	QEK40JM-337	E CAP		R251	QRSA08J-102YN	CHIP R
C10	QEF81AM-106	CHIP T CAP	1	R252	QRSA08J-394YN	CHIP R
		Photos and American		R253	QRSA08J-153YN	CHIP R
C11						
C11			17.0	R254	QRSA08J-101YN	CHIP R
C12				R255	QRSA08J-473YN	CHIPR
C13	QCFA1EZ-104	CHIP CAP	1 983	R256	QRSA08K-2R2YN	CHIP R
				R257	QRSA08K-2R2YN	CHIP R
			180	R258	QRSA08K-2R2YN	CHIP R
			A	R259	QRG125J-R68A	OMR
			43		UNG 1255-NOOA	OMA
L1	PU57620-102K	CHIP COIL		R260		
			1			
			15	R261	-	
				R262	QRSA08J-332YN	CHIP R
				R263	A LONG PROPERTY.	
SW1	PU57008-2	TACT SWITCH, REC STBY			-	THE RESERVE OF THE PARTY OF THE
SW2	PU52930	PUSH SWITCH, REW	3100	R264	QRSA08J-471YN	CHIPR
SW3	PU52930	PUSH SWITCH, STOP				
SW4	PU57008-2	TACT SWITCH, MONITOR	A STATE OF			
			115 179			
SW5	PU57008-2	TACT SWITCH, PLAY	1 21	C251	QFZ9011-104	MP CAP
SW6	PU57008-2	TACT SWITCH, PAUSE/STILL		C252	QCSA1HJ-181	CHIP CAP
SW7	PU52930 .	PUSH SWITCH, FF				
SW8	PU55583	SLIDE SWITCH, POWER		C253	QER41CM-106	ECAP
SW9	PU58694	SWITCH, SP/EP		C254	QCYA1HK-103	CHIP CAP
SW10	PU56346	PUSH SWITCH, QUICK REVIEW		C255	QER41CM-106	E CAP
34410	F 0 3 0 3 4 0	FOSH SWITCH, GOICK REVIEW		C256	QER41CM-106	E CAP
				C257	QER41CM-106	E CAP
				C258	QCFA1EZ-104	CHIP CAP
JA1	PU59010	JACK		C259	QCFA1EZ-104	CHIP CAP
JA2	PU59010	JACK		C260		
				C261	QER41CM-106	E CAP
				C262	QER41CM-106	E CAP
			1	C263	QCFA1EZ-104	CHIP CAP
CONN1	PU58988-2	A/V CONNECTOR				
			18.	C264	QFZ0095-104	MP CAP
				C265	QCFA1EZ-104	CHIP CAP
1112	BO42520	LED HOLDER FOR DO				
LH3	PQ42539	LED HOLDER, FOR D3	1			
LH4	PQ42539	LED HOLDER, FOR D4	1	L251	PU59188-101K	CHIP COIL
LH5	PQ42539	LED HOLDER, FOR D5				
SH1	PU59811	SHEET				
			A	CP251	ICP-F10	CIRCUIT PROTECTOR
CN1	PU58251-10	CAP. HOUSING	-			0001111101201011
CN2	PU58251-16	CAP. HOUSING				
CN3	PU58693	CAP. HOUSING			PQ42514	COVER PLATE
						Trial Marketing Seno . M. Cult
				SLD1	PU58981	SHIELD COVER
		0.400000-0.0000000000000000000000000000			Lad magazin	eria di la concerne e de ano
	THE043A	PRE AMP IC [04]				
				CN-M1	PU58655-13	CAP. HOUSING
				CN-MT	PU58055-13	CAP. HOUSING
	PU11506A2-02-C	MDA BOARD ASS'Y [05]				
IC251	BA6450F	FLAT IC			PU22428A-02-C	SKEW JUMP BOARD ASS'Y [12]
		91-10 GOT HT 200 22				
			100	IC1	AN3592S	FLATIC
	MA151WA	CHIP DIODE		IC2	MSM6989MS	FLATIC
D251			1		and the same of th	
D251				IC3	TA7374P	INTEGRATED CIRCUIT
	DAP202K MA704	CHIP DIODE CHIP ZENER DIODE		IC3	TA7374P AN8009	INTEGRATED CIRCUIT

	NO.	PART NO.	PART NAME, DESCRIPTION	# 4	HEF. NO.	PART NO.	PART NAME, DESCRIPTION
Q1		2SC2412K	CHIP TRANSISTOR		R31	QRSA08J-122YN	CHIP R
	OR	2SD601	CHIP TRANSISTOR		R32	QRSA08J-102YN	CHIP R
02		2SC2412K	CHIP TRANSISTOR		R33	QRSA08J-152YN	CHIP R
42	OB		CHIP TRANSISTOR		R34	PU59237-103	CHIP VR. DELAYED V LEV
	OH	2SD601					
03		2SC2412K	CHIP TRANSISTOR			R PU59456-103	CHIP VR
	OR	2SD601	CHIP TRANSISTOR	DESIR SERVICE	R35	QRSA08J-393YN	CHIP R
Q4		2SC2412K	CHIP TRANSISTOR	rape Tall	R36	QRSA08J473YN	CHIP R
	OR	2SD601	CHIP TRANSISTOR	Marca Company	R37	QRSA08J-222YN	CHIP R
Q5		2SC2412K	CHIP TRANSISTOR		R38	QRSA08J-103YN	CHIP R
	OR	2SD601	CHIP TRANSISTOR		R39	QRSA08J-223YN	CHIPR
06	0	2SC2412K	CHIP TRANSISTOR		R40	QRSA08J-103YN	CHIP R —
Q6					1140	QH3A003-103114	CHIF N =
	OH	2SD601	CHIP TRANSISTOR	100.0			
27		2SA1037K	CHIP TRANSISTOR	CONTRACTOR OF THE PERSON	R41	QRSA08J-122YN	CHIP R
	OR	2SB709	CHIP TRANSISTOR		R42	QRSA08J-681YN	CHIP R
28		2SC2412K	CHIP TRANSISTOR		R43	QRSA08J-681YN	CHIP R
	OR	2SD601	CHIP TRANSISTOR		R44	QRSA08J-391YN	CHIP R
09		2SC2412K	CHIP TRANSISTOR		R45	QRSA08J-562YN	CHIPR
	00	2SD601	CHIP TRANSISTOR	A STATE OF THE STA			
010	Un.				R46	QRSA08J-473YN	CHIPR
210		2SC2412K	CHIP TRANSISTOR	THE PARTY OF THE P	R47	QRSA08J-473YN	CHIPR
	OR	2SD601	CHIP TRANSISTOR	dam's first	R48	QRSA08J-333YN	CHIPR
					R49	QRSA08J-333YN	CHIP R
Q11		2SC2412K	CHIP TRANSISTOR		R50	QRSA08J-122YN	CHIP R
	OR	2SD601	CHIP TRANSISTOR				
012		2SC2412K	CHIP TRANSISTOR		R51	QRSA08J-471YN	CHIPR
	OR	2SD601	CHIP TRANSISTOR		R52	QRSA08J-152YN	CHIPR
213		2SC2412K	CHIP TRANSISTOR	400	R53	QRSA08J-333YN	CHIP R
413	00			HOLDING CO.			
	OH	2SD601	CHIP TRANSISTOR	-pan-ro I Tale	R54	QRSA08J-333YN	CHIPR
214		2SC2412K	CHIP TRANSISTOR		R55	QRSA08J-122YN	CHIP R
	OR	2SD601	CHIP TRANSISTOR		R56	QRSA08J-272YN	CHIPR
					R57	QRSA08J-222YN	CHIPR
32		QRSA08J-391YN QRSA08J-123YN	CHIP R	9 BC 2	C1	QCYA1HK-332	CHIP CAP
73					C2	QCYA1HK-152	CHIP CAP
34		QRSA08J-104YN	CHIP R		C3	QEF81AM-475	CHIP T CAP
R5		QRSA08J-102YN	CHIP R	用 1.20 17 17	C4	QEF81AM-105	CHIP T CAP
36		QRSA08J-473YN	CHIP R	Vanco .	C5	QEF81AM-105	CHIP T CAP
37		QRSA08J-821YN	CHIP R		C6	QCYA1HK-102	CHIP CAP
88		QRSA08J-272YN	CHIPR		C7 ·	QCSA1HJ-220	CHIP CAP
R9		QRSA08J-222YN	CHIP R		C8	QCYA1HK-103	CHIP CAP
				-90-20	C9	QCSA1HJ-220	CHIP CAP
					C10	QCYA1HK-103	CHIP CAP
211		QRSA08J-223YN	CHIPR		C11	QCYA1HK-103	CHIP CAP
R12		QRSA08J-103YN	CHIPR		C12	QCYA1HK-103	CHIP CAP
		QRSA08J-154YN	CHIP R		C13	QCYA1EK-223	CHIP CAP
R13			CHIP R				CHIP T CAP
		UNDAUDJ-ZZI TIV		THE RESERVE THE PARTY OF THE PA	C14	OFFRO IM-476	MILLER LANGE
R14		QRSA08J-221YN	CHIP B		C14	QEF80JM-476	
R14 R15		-QRSA08J-393YN	CHIP R		C15	QCYA1HK-222	CHIP CAP
R14 R15		QRSA08J-393YN PU59237-473	CHIP VR, 0.5 H DET		C15	QCYA1HK-222 QCYA1HK-103	
R14 R15 R16	OR	QRSA08J-393YN PU59237-473 PU59456-473	CHIP VR, 0.5 H DET CHIP VR		C15	QCYA1HK-222	CHIP CAP
R14 R15 R16	OR	QRSA08J-393YN PU59237-473	CHIP VR, 0.5 H DET		C15	QCYA1HK-222 QCYA1HK-103	CHIP CAP
R14 R15 R16	OR	QRSA08J-393YN PU59237-473 PU59456-473	CHIP VR, 0.5 H DET CHIP VR	i de la como	C15 C16 C17	QCYA1HK-222 QCYA1HK-103 QCYA1HK-222	CHIP CAP CHIP CAP
R14 R15 R16 R17 R18	OR	ORSA08J-393YN PU59237-473 PU59456-473 QRSA08J-222YN	CHIP VR, 0.5 H DET CHIP VR CHIP R	EURO	C15 C16 C17 C18	QCYA1HK-222 QCYA1HK-103 QCYA1HK-222 QEF81AM-105	CHIP CAP CHIP CAP CHIP CAP CHIP T CAP
R14 R15 R16 R17 R18 R19	OR	ORSA08J-393YN PU59237-473 PU59456-473 ORSA08J-222YN ORSA08J-561YN	CHIP VR, 0.5 H DET CHIP VR CHIP R CHIP R		C15 C16 C17 C18 C19 C20	QCYA1HK-222 QCYA1HK-103 QCYA1HK-222 QEF81AM-105 QCYA1EK-223 QCYA1HK-103	CHIP CAP CHIP CAP CHIP T CAP CHIP T CAP
R14 R15 R16 R17 R18 R19 R20	OR	QRSA08J-393YN PU59237-473 PU59456-473 QRSA08J-222YN QRSA08J-561YN QRSA08J-561YN QRSA08J-393YN	CHIP VR, 0.5 H DET CHIP VR CHIP R CHIP R CHIP R CHIP R	A.W.	C15 C16 C17 C18 C19 C20	QCYA1HK-222 QCYA1HK-103 QCYA1HK-222 QEF81AM-105 QCYA1EK-223 QCYA1HK-103	CHIP CAP CHIP CAP CHIP T CAP CHIP T CAP CHIP CAP CHIP CAP CHIP CAP
R14 R15 R16 R17 R18 R19 R20	OR	QRSA08J-393YN PU59237-473 PU59456-473 QRSA08J-222YN QRSA08J-561YN QRSA08J-561YN QRSA08J-393YN	CHIP VR, 0.5 H DET CHIP VR CHIP R CHIP R CHIP R CHIP R CHIP R		C15 C16 C17 C18 C19 C20	QCYA1HK-222 QCYA1HK-103 QCYA1HK-222 QEF81AM-105 QCYA1EK-223 QCYA1HK-103 QCSA1HJ-151 QEK41AM-107	CHIP CAP CHIP CAP CHIP T CAP CHIP T CAP CHIP CAP CHIP CAP CHIP CAP
R14 R15 R16 R17 R18 R19 R20 R21 R22	OR	QRSA08J-393YN PU59237-473 PU59456-473 QRSA08J-222YN QRSA08J-561YN QRSA08J-561YN QRSA08J-393YN QRSA08J-223YN QRSA08J-471YN	CHIP VR, 0.5 H DET CHIP VR CHIP R CHIP R CHIP R CHIP R CHIP R CHIP R		C15 C16 C17 C18 C19 C20 C21 C22 C23	QCYA1HK-222 QCYA1HK-103 QCYA1HK-222 QEF81AM-105 QCYA1EK-223 QCYA1HK-103 QCSA1HJ-151 QEK41AM-107 QCYA1EK-223	CHIP CAP CHIP CAP CHIP CAP CHIP T CAP CHIP CAP CHIP CAP CHIP CAP CHIP CAP
R14 R15 R16 R17 R18 R19 R20 R21 R22 R23	OR	QRSA08J-393YN PU59237-473 PU59456-473 QRSA08J-222YN QRSA08J-561YN QRSA08J-561YN QRSA08J-393YN QRSA08J-223YN QRSA08J-471YN QRSA08J-222YN	CHIP VR, 0.5 H DET CHIP VR CHIP R		C15 C16 C17 C18 C19 C20 C21 C22 C23 C24	QCYA1HK-222 QCYA1HK-103 QCYA1HK-222 QEF81AM-105 QCYA1EK-223 QCYA1HK-103 QCSA1HJ-151 QEK41AM-107 QCYA1EK-223 QCSA1HJ-220	CHIP CAP CHIP CAP CHIP CAP CHIP T CAP CHIP CAP CHIP CAP CHIP CAP CHIP CAP E CAP CHIP CAP CHIP CAP
R13 R14 R15 R16 R17 R18 R19 R20 R21 R22 R23 R24	OR	QRSA08J-393YN PU59237-473 PU59456-473 QRSA08J-222YN QRSA08J-561YN QRSA08J-561YN QRSA08J-393YN QRSA08J-223YN QRSA08J-471YN QRSA08J-222YN QRSA08J-681YN	CHIP VR, 0.5 H DET CHIP VR CHIP R		C15 C16 C17 C18 C19 C20 C21 C22 C23	QCYA1HK-222 QCYA1HK-103 QCYA1HK-222 QEF81AM-105 QCYA1EK-223 QCYA1HK-103 QCSA1HJ-151 QEK41AM-107 QCYA1EK-223	CHIP CAP CHIP CAP CHIP CAP CHIP T CAP CHIP CAP CHIP CAP CHIP CAP CHIP CAP
R14 R15 R16 R17 R18 R19 R20 R21 R22 R23 R24	OR	QRSA08J-393YN PU59237-473 PU59456-473 QRSA08J-222YN QRSA08J-561YN QRSA08J-561YN QRSA08J-393YN QRSA08J-223YN QRSA08J-471YN QRSA08J-222YN	CHIP VR, 0.5 H DET CHIP VR CHIP R		C15 C16 C17 C18 C19 C20 C21 C22 C23 C24	QCYA1HK-222 QCYA1HK-103 QCYA1HK-222 QEF81AM-105 QCYA1EK-223 QCYA1HK-103 QCSA1HJ-151 QEK41AM-107 QCYA1EK-223 QCSA1HJ-220	CHIP CAP CHIP CAP CHIP CAP CHIP T CAP CHIP CAP CHIP CAP CHIP CAP CHIP CAP E CAP CHIP CAP CHIP CAP
R14 R15 R16 R17 R18 R19 R20 R21 R22 R23	OR	QRSA08J-393YN PU59237-473 PU59456-473 QRSA08J-222YN QRSA08J-561YN QRSA08J-561YN QRSA08J-393YN QRSA08J-223YN QRSA08J-471YN QRSA08J-222YN QRSA08J-681YN	CHIP VR, 0.5 H DET CHIP VR CHIP R		C15 C16 C17 C18 C19 C20 C21 C22 C23 C24 C25	QCYA1HK-222 QCYA1HK-103 QCYA1HK-222 QEF81AM-105 QCYA1EK-223 QCYA1HK-103 QCSA1HJ-151 QEK41AM-107 QCYA1EK-223 QCSA1HJ-220 QER40JM-476 QCSA1HJ-270	CHIP CAP CHIP CAP CHIP T CAP CHIP T CAP CHIP CAP CHIP CAP CHIP CAP CHIP CAP E CAP CHIP CAP E CAP CHIP CAP
R14 R15 R16 R17 R18 R19 R20 R21 R22 R23 R24 R25 R26	OR	QRSA08J-393YN PU59237-473 PU59456-473 QRSA08J-222YN QRSA08J-561YN QRSA08J-561YN QRSA08J-393YN QRSA08J-223YN QRSA08J-471YN QRSA08J-222YN QRSA08J-681YN QRSA08J-681YN	CHIP VR, 0.5 H DET CHIP VR CHIP R	LAND	C15 C16 C17 C18 C19 C20 C21 C22 C23 C24 C25 C26 C27	QCYA1HK-222 QCYA1HK-103 QCYA1HK-222 QEF81AM-105 QCYA1EK-223 QCYA1HK-103 QCSA1HJ-151 QEK41AM-107 QCYA1EK-223 QCSA1HJ-220 QER40JM-476 QCSA1HJ-270 QCSA1HJ-330	CHIP CAP CHIP CAP CHIP CAP CHIP T CAP CHIP CAP CHIP CAP CHIP CAP CHIP CAP E CAP CHIP CAP E CAP CHIP CAP E CAP CHIP CAP
R14 R15 R16 R17 R18 R19 R20 R21 R22 R23 R24 R25 R26 R27	OR	QRSA08J-393YN PU59237-473 PU59456-473 QRSA08J-222YN QRSA08J-561YN QRSA08J-561YN QRSA08J-393YN QRSA08J-223YN QRSA08J-471YN QRSA08J-222YN QRSA08J-681YN QRSA08J-681YN QRSA08J-681YN QRSA08J-471YN	CHIP VR, 0.5 H DET CHIP VR CHIP R	10) 10)	C15 C16 C17 C18 C19 C20 C21 C22 C23 C24 C25 C26 C27 C28	QCYA1HK-222 QCYA1HK-103 QCYA1HK-222 QEF81AM-105 QCYA1EK-223 QCYA1HK-103 QCSA1HJ-151 QEK41AM-107 QCYA1EK-223 QCSA1HJ-220 QER40JM-476 QCSA1HJ-270 QCSA1HJ-330 ECEV1CV100	CHIP CAP CHIP CAP CHIP CAP CHIP T CAP CHIP CAP CHIP CAP CHIP CAP E CAP CHIP CAP E CAP CHIP CAP E CAP CHIP CAP E CAP CHIP CAP
R14 R15 R16 R17 R18 R19 R20 R21 R22 R23 R24 R25	OR	QRSA08J-393YN PU59237-473 PU59456-473 QRSA08J-222YN QRSA08J-561YN QRSA08J-561YN QRSA08J-393YN QRSA08J-223YN QRSA08J-223YN QRSA08J-471YN QRSA08J-681YN QRSA08J-681YN QRSA08J-671YN QRSA08J-561YN	CHIP VR, 0.5 H DET CHIP VR CHIP R		C15 C16 C17 C18 C19 C20 C21 C22 C23 C24 C25 C26 C27	QCYA1HK-222 QCYA1HK-103 QCYA1HK-222 QEF81AM-105 QCYA1EK-223 QCYA1HK-103 QCSA1HJ-151 QEK41AM-107 QCYA1EK-223 QCSA1HJ-220 QER40JM-476 QCSA1HJ-270 QCSA1HJ-330	CHIP CAP CHIP CAP CHIP CAP CHIP T CAP CHIP CAP CHIP CAP CHIP CAP CHIP CAP E CAP CHIP CAP E CAP CHIP CAP E CAP CHIP CAP

	F.NO.	PART NO.	PART NAME, DESCRIPTION	# 🛆	REF.NO.	PART NO.	PART NAME, DESCRIPTION
C3	1	QCYA1HK-103	CHIP CAP				
C3:	2	QER40JM-476	E CAP	The N			
C3:		QCYA1EK-223	CHIP CAP	1		PU22483A-1-C	END ALARM BOARD ASS'Y [13]
C34		QCYA1HK-103	CHIP CAP				
C35					IC1	UPD4040BG	FLATIC MANAGEMENT AND
		QCYA1HK-103	CHIP CAP		IC2	UPD4069UBG	FLAT IC
C36		QEF81VM-104	CHIP T CAP	200	IC3	UPD4013BG	FLATIC
C3		QEF81AM-475	CHIP T CAP				
C38	8	QCYA1HK-103	CHIP CAP		IC4	UPD4068BG	FLATIC
C38	9	QCSA1HJ-390	CHIP CAP		IC5	UPD4027BG	FLATIC
C40	0	QCYA1HK-102	CHIP CAP		1C6	UPD40118G	FLATIC
					IC7	BA222	INTEGRATED CIRCUIT
C41	1	ECEV1EV4R7	CHIP E CAP				
C42	2	QCYA1HK-103	CHIP CAP				
C43	3	QCSA1HJ-100	CHIP CAP				
C44	4	QCYA1HK-103	CHIP CAP		Q1	DTC144EK	CHIP DIGITAL TRANSISTOR
C45	5	QEF80JM-476	CHIP T CAP		02	2SA1037K	CHIP TRANSISTOR
C46	3	QEF81AM-105	CHIP T CAP		03	DTC144EK	CHIP DIGITAL TRANSISTOR
C47	7	QCYA1EK-223	CHIP CAP				
C48		QCYA1EK-223	CHIP CAP				
C49			CHIP T CAP				
		QEF81AM-105		A March	D1 .	MA151WA	CHIP DIODE
C50		QCYA1HK-103	CHIP CAP	16			
C51		QEF81VM-224	CHIP T CAP				
C52	2	ECEV1CV100	CHIP E CAP				
C53	3	QCF11HP-103	C CAP		-	0004001222VN	CHIEF
			ENTER SECTION OF THE		R1	QRSA08J-333YN	CHIP R
					R2	QRSA08J-124YN	CHIP R
·L1		PU59482	LC BLOCK		R3	QRSA08J-333YN	CHIPR
		FU09402	LC BLOCK		R4	QRSA08J-103YN	CHIPR
					R5	QRSA08J-103YN	CHIPR
					R6	QRSA08J-473YN	CHIPR
L3		PU59483	LC BLOCK	115	R7	QRSA08J-223YN	CHIPR
L4		PU58627-100J	CHIP COIL		R8	QRSA08J-223YN	CHIP R
	OR	PU58201-100J	CHIP COIL		R9	QRSA08J-564YN	CHIP R
L5		PU58627-101K	CHIP COIL		R10	QRSA08J-473YN	CHIPR
	OR	PU58201-101K	CHIP COIL			anonoo man	
L6		PU58627-101K	CHIP COIL				
	OR	PU58201-101K	CHIP COIL				
L7		PU58627-390J	CHIP COIL		01	05504444405	CHIEF CAR
	OR	PU58201-390J	CHIP COIL		C1	QEF81AM-105	CHIP T CAP
L8		PU58627-560J	CHIP COIL		C2	QER41CM-106	E CAP
	OR	PU58201-560J	CHIP COIL		C3	QER41CM-106	ECAP
	OIL				C4	QCYA1HK-102	CHIP CAP
L9	- 00	PU58627-101K	CHIP COIL		C5	QCFA1EZ-104	CHIP CAP
		PU58201-101K	CHIP COIL		C6	QCFA1EZ-104	CHIP CAP
L10)	PU58627-101K	CHIP COIL		C7	QCFA1EZ-104	CHIP CAP
	OR	PU58201-101K	CHIP COIL	1 1 1 N			MINER WYDEN BOARAGE CONTRACTOR
L11		PU58627-101K	CHIP COIL				
	OR	PU58201-101K	CHIP COIL		SH1	PU59810	SHEET
					3111	1003010	SHEET
TP		PU56278	TEST PIN, TP1 – 11	9 3 7 3	SPC1	PQM30029-86	SPACER
				1			
				7			
				1425	CN1	PU58655-8	CAP. HOUSING
				2013			
				714			
		PU59780A-C	SUB BOARD ASS'Y	3 7 4			
			(NOT INCLUDED IN PU22428A-02-C				
			OF SKEW JUMP BOARD ASS'Y)				a anti-o
				1 80			THE THE COURT OF THE PARTY OF T
R10		QVZ3606-222	CHIP VR, INVERTED COL LEV	1			
niu		G V Z 3000-ZZZ	OTHE VIT, HAVEN TED GOL LEV				
		The second second					
L2		PU58627-330J	CHIP COIL	17.0			
	OP	PU58201-330J	CHIP COIL	100			

HET. NO.	PART NO.	PART NAME, DESCRIPTION	# 🛆	HEF, NO	. PART NO.	PART NAME, DESCRIPTION	
				C1	QCYA1HK-103	CHIP CAP	
	DI 14 4 20 4 F 0	IMACED DOADD ADDIVIDAL (DAL	18	C2	QER41EM-475A	E CAP	
	PU11394E9	IMAGER BOARD ASS'Y [21], [22]	1	C3	QCYA1HK-103	CHIP CAP	
			1				
[IMAGER	(1) SECTION]		1 - 100	C4	QEK41CM-107	ECAP	
			1 19	C5	QCYA1HK-103	CHIP CAP	
IC1	-	REFER TO [M5]		C6	ECEV1CV100	CHIP E CAP	
IC2	MC-5573A	INTEGRATED CIRCUIT	1 13	C7	QCYA1HK-103	CHIP CAP	
IC3	MMH0026CP1	INTEGRATED CIRCUIT		C8	QER41ÇM-106A	E CAP	
			12 130	C9	QCFA1EZ-104	CHIP CAP	
			1	C10	QCYA1HK-103	CHIP CAP	
			1 11				
				C11	QCYA1HK-103	CHIP CAP	
Q1	2SD601R	CHIP TRANSISTOR	1	C12	QCYA1HK-103	CHIP CAP	
Q2	2SD601R	CHIP TRANSISTOR	1-10				
Q3	2SA1462-T2BY33	CHIP TRANSISTOR		C13	QER41CM-226	E CAP	
Q4	2SC3735-T1BB33	CHIP TRANSISTOR		C14	QCYA1HK-103	CHIP CAP	
	2SC3735-T1BB34	CHIP TRANSISTOR		C15	PU58980-105	CHIP CAP	
Q5	2SC2778C	CHIP TRANSISTOR		C16	PU58980-105	CHIP CAP	
			1	C17	QCTA1CH-680	CHIP CAP	
Q6	2SC2778C	CHIP TRANSISTOR		C18	QCTA1CH-680	CHIP CAP	
Q7	2SC2778C	CHIP TRANSISTOR	1	C19	QEE81AM-476	T CAP	
			1	C20	QCTA1CH-101	CHIP CAP	
					14 2 12	TOTAL SERVICE A PROPERTY OF	
				C21	OCTA1CH 101	CHIPCAP	
D1	MA153	CHIP DIODE	1		QCTA1CH-101	CHIP CAP	
			100	C22	QEF81CM-105	CHIP T CAP	
D2	MA151K	CHIP DIODE		C23	QCYA1HK-103	CHIP CAP	
D3	MA151K	CHIP DIODE		C24	QER40JM-476	E CAP	
			1 1 3	C25	QCYA1HK-103	CHIP CAP	
				C26	QEMA1AM-107	E CAP	
			1	0	R QED40JM-127	E CAP	
R1	QRSA08J-912YN	CHIP R	1 3	C27	QCYA1HK-103	CHIP CAP	
R2	QRSA08J-104YN	CHIP R		C28			
R3	QRSA08J-472YN	CHIP R	1		QCYA1HK-103	CHIP CAP	
R4	QRSA08J-332YN	CHIP R		C29	ECEV1CV100	CHIP E CAP	
R5	PU57457-104	VR		C30	QCYA1HK-103	CHIP CAP	
R6	QRSA08J-104YN		1 36				
		CHIP R		C31	QER41EM-475A	E CAP	
R7	QRSA08J-224YN	CHIPR		C32	QCYA1HK-103	CHIP CAP	
R8	QRSA08J-332YN	CHIPR		C33	QER41CM-106A	E CAP	
R9	QRSA08J-101YN	CHIP R		C34	QCYA1HK-103	CHIP CAP	
R10	QRSA08J-220YN	CHIP R		C35	QCYA1HK-103	CHIP CAP	
			1 792	C36	QER41CM-106A	E CAP	
R11	QRSA08J-124YN	CHIP R	1				
R12	QRSA08J-303YN	CHIP R	1 13	C37	QCYA1HK-103	CHIP CAP	
				C38	QCYA1HK-103	CHIP CAP	
R13	QRSA08J-222YN	CHIP R	1800				
R14	QRSA08J-220YN	CHIPR	1				
R15	QRSA08J-393YN	CHIP R		C60	QCYA1HK-103	CHIP CAP	
R16	QRSA08J-153YN	CHIP R	1000				
R17	QRSA08J-272YN	CHIP R					
R18	QRSA08J-102YN	CHIP R	1	C66	QCYA1HK-103	CHIP CAP	
R19	QRSA08J-102YN	CHIP R	1 1 1		QCYA1HK-103		
R20			1: 160	C67		CHIP CAP	
1120	QRSA08J-123YN	CHIPR		C68	QCYA1HK-103	CHIP CAP	
		and the last of the second section in the second section is a second section of the second section in the second section is a second section of the second section in the second section is a second section of the second section in the second section is a second section of the second section in the second section is a second section of the section		C69	QCYA1HK-103	CHIP CAP	
R21	QRSA08J-333YN	CHIP R	1 88	C70	PU58980-105	CHIP CAP	
R22	QRSA08J-102YN	CHIP R					
R23	QRSA08J-333YN	CHIP R	1 82 3	C71	PU58980-105	CHIP CAP	
R24	QRSA08J-183YN	CHIPR		C72	PU58980-105	CHIP CAP	
R25	QRSA08J-102YN	CHIP R					
R26	QRSA08J-681YN	CHIP R					
R27	QRSA08J-220YN			C78	QCYA1HK-103	CHIP CAP	
		CHIP R	12/2				
R28	QRSA08J-220YN	CHIP R		C79			
			1 60	C80	QCT25CH-390	CCAP	
R47	QRSA08J-104YN	CHIP R					
R48	QRSA08J-101YN	CHIP R					
			1				
				L1	PU59022-1	CHIP COIL, 100 µH	
			1	L2	PU58385-270K	CHIP COIL	

-	HEF.NO.	PART NO.	PART NAME, DESCRIPTION	# 4	REF. NO.	PAHI NO.	PART NAME, DESCRIPTION
	L3	PU58385-100K	CHIP COIL	1	C39	QCYA1HK-103	CHIP CAP
	L4	PU58385-270K	CHIP COIL	19.00	C40	QER41CM-106A	E CAP
	L5	PU58385-100K	CHIP COIL				
		atgolo	THE STATE OF THE S		C41	QCYA1HK-103	CHIP CAP
				-	C42	QER40JM-476	E CAP
				105	C43	QER40JM-476	E CAP
					043		E CAP
-	FC1	PU58946-1	FLAT CABLE	1 8.99	C44	QCYA1HK-103	CHIP CAP
	FC2	PU58946-2	FLAT CABLE	100	C45	QCYA1HK-103	CHIP CAP
					C46	QER41CM-226	E CAP
					C47	QCYA1HK-103	CHIP CAP
					C48	ECEV1CV100	CHIP E CAP
					C49	Ruseis carries	A SHORT AND A SHOP OF THE PARTY OF
					C50	_	
				1	C51		
						OCYA1UK 102	CHIRCAR
					C52	QCYA1HK-103	CHIP CAP
				1 30	C53	QCTA1CH-220	CHIP CAP
					C54	QCYA1HK-103	CHIP CAP
The Law				1	C55	QCYA1HK-103	CHIP CAP
					C56	QCTA1CH-470	CHIP CAP
	IMAGER	(2) SECTION)		188	C57	QCTA1CH-470	CHIP CAP
	,			1	C58	-	sing - Scenario
	IC4	UPD6146G	FLATIC	1 39	C59		made - the second
			FLAT IC				
	IC5	UPD9311G	FLAT IC				
	IC6				C61	QCYA1HK-103	CHIRCAR
	IC7	MN74HCU04S	FLAT IC				CHIP CAP
	IC8	SN74ALSOOANS	FLAT IC		C62	QER41CM-106A	E CAP
				9	C63	QCYA1HK-103	CHIP CAP
					C64	QCYA1HK-103	CHIP CAP
					C65	QCYA1HK-103	CHIP CAP
	Q8	2SB709R	CHIRTRANSISTOR				
			CHIP TRANSISTOR				
	Q9	2SD601R	CHIP TRANSISTOR		C73	QCYA1HK-103	CHIP CAP
	Q10	-	Visits - Teventy (DAMPO)		C74	QCYA1HK-103	CHIP CAP
		Line View	THE SECOND CONTRACT OF SECOND		C75	QCYA1HK-103	CHIP CAP
	Q11	2SD601R	CHIPTRANSISTOR		C76	QCYA1HK-103	CHIP CAP
	R29	QRSA08J-102YN	CHIP R				
	R30	QRSA08J-393YN			L6	PU59022-3	CHIP COIL, 22µH
		C/10/003-353 1 N			L7	PU59022-1	CHIP COIL, 100 µH
	Dat	00040014001	THE RESERVE OF SAME SERVERS	1 1	L8	PU58385-100K	CHIP COIL
	R31	QRSA08J-103YN	CHIP R		L9	PU58385-270K	CHIP COIL
	R32	QRSA08J-563YN	CHIP R	No. 19			
	R33	QRSA08J-104YN	CHIP R	1 343			
	R34	QRSA08J-104YN	CHIP R	189			
	R35	QRSA08J-104YN	CHIP R		V4	DUEDAGO	COULT ATCH
	R36	QRSA08J-104YN	CHIP R		X1	PU59439	OSCILLATOR
	R37						
	R38			1			
		OBSA081271VN	CHIR P.	11.63			
	R39	QRSA08J-271YN	CHIP R		FW1	PU59131	FLEX. WIRE
	R40	QRSA08J-271YN	CHIP R				
	R41	QVZ3531-331	VR, V. SUB				
	R42	The state of the s	THE PERSON NAMED IN THE PARTY OF		CN IS	DI 150100 10	CAR HOUSING
	R43	QRSA08J-0R0Y	CHIP R		CN-13	PU59100-12	CAP. HOUSING
	R44			1000			
		QRSA08J-124YN	CHIP R				
	R45	QRSA08J-183YN	CHIP R	Page 1			
	DAG	QRSA08J-0R0Y	CHIP R		SPC1	PQ31341	BOARD SPACER, X 2
	R46						
		ORDIELL 274	CB				
	R46 R49 R50	QRD161J-271 QRD161J-271	CR CR				

• • • •					D1		- 1,000	serio : - peter ateratival, the figure
		PU22247F-01-C	VIDEO BOARD ASS'Y [23]	1	D2		1SS99	DIODE
		70222777 070	11520 507115 7100 1 (20)		D3		MA151A	CHIP DIODE
IC1		UPD9310G	FLAT IC		D4		MA151A	CHIP DIODE
IC2				- 18				
102	0.0	UPD74HC74G	FLATIC					
		MN74HCU74S	FLAT IC					
	OH	LR74HC74N2	FLATIC		R1		QRSA08J-332YN	CHIPR
IC3		M51277FP	FLATIC		R2		QRSA08J-332YN	CHIPR
IC4		-	AD J - ATRIBUTABLE 120		R3		QRSA08J-152YN	
IC5		H8D7001	INTEGRATED CIRCUIT					CHIPR
IC6		HA11881MP	FLAT IC		R4		QRSA08J-152YN	CHIPR
IC7		26VT06	INTEGRATED CIRCUIT	1	R5		QRSA08J-104YN	CHIPR
					R6		QRSA08J-682YN	CHIPR
					R7		QRSA08J-222YN	CHIP R
					R8		QRSA08J-333YN	CHIP R
Q1		20027790	CHIRTRANGISTOR	1 13	R9		QRSA08J-223YN	CHIP R
		2SC2778C	CHIP TRANSISTOR	9	R10		QRSA08J-102YN	CHIP R
02		2SC2778C	CHIP TRANSISTOR					
03		2SC2778C	CHIP TRANSISTOR	E 48	R11		QRSA08J-102YN	CHIP R
Q4		2SC2778C	CHIP TRANSISTOR		R12		PU59237-102	CHIP VR, DET CLOCK PHASE
Q5		2SC2778C	CHIPTRANSISTOR	1		OR	PU59456-102	CHIP VR
Q6		2SC2778C	CHIP TRANSISTOR	1 16	D40			
Q7		2SA1022C	CHIP TRANSISTOR	1000	R13		QRSA08J-332YN	CHIP R
	OR	2SA812	CHIP TRANSISTOR	1	R14		QRSA08J-103YN	CHIPR
	OR	2SA1037K	CHIP TRANSISTOR		R15		QRSA08J-333YN	CHIP R .
08		2SA1022C	CHIP TRANSISTOR	100	R16		QRSA08J-103YN	CHIP R
	OR	2SA812	CHIP TRANSISTOR		R17		-	
		2SA1037K	CHIP TRANSISTOR		R18		QRSA08J-102YN	CHIP R
Q9	011			1	R19		QRSA08J-102YN	CHIP R
us	0.0	2SA1022C	CHIP TRANSISTOR	1 500	R20		QRSA08J-102YN	CHIPR
		2SA812	CHIP TRANSISTOR					
	OR	2SA1037K	CHIP TRANSISTOR	1 46	R21		QRSA08J-561YN	CHIP R
Q10		2SA1022C	CHIP TRANSISTOR		R22		QRSA08J-182YN	
	OR	2SA812	CHIP TRANSISTOR					CHIP R
	OR	2SA1037K	CHIP TRANSISTOR	-	R23		QRSA08J-222YN	CHIPR
					R24		QRSA08J-102YN	CHIPR
Q11		2SC2778C	CHIP TRANSISTOR		R25		PU59237-102	CHIP VR, YL GAIN
	OR	2SC1623	CHIP TRANSISTOR			OR	PU57816-2-102	CHIP VR
Q12		2SC2778C	CHIP TRANSISTOR			OR	PU59456-102	CHIP VR
	OR	2SC1623	CHIP TRANSISTOR		R26		QRSA08J-222YN	CHIP R
Q13		20027700	CLUB TO ANGUSTOS		R27		QRSA08J-272YN	CHIPR
uis	0.0	2SC2778C	CHIPTRANSISTOR		R28		QRSA08J-102YN	CHIP R
	ОН	2SC1623	CHIP TRANSISTOR	9 - 1 -	R29		QRSA08J-102YN	CHIP R
Q14		2SA1022C	CHIPTRANSISTOR		R30		QRSA08J-222YN	CHIP R
	OR	2SA812	CHIP TRANSISTOR	1				
Q15		2SC2778C	CHIP TRANSISTOR	1	R31		PU59237-103	CHIP VR, R/B BALANCE
	OR	2SC1623	CHIP TRANSISTOR	1		OR	PU57816-2-103	CHIP VR
Q16		2SC2778C	CHIP TRANSISTOR				QVZ3606-103	CHIP VR
	OR	2SC1623	CHIP TRANSISTOR					
017		2SC2778C	CHIP TRANSISTOR			UN	PU59456-103	CHIP VR
	OB	2SC1623			R32		QRSA08J-332YN	CHIPR
Q18	JA	2SC2778C	CHIP TRANSISTOR		R33		QRSA08J-122YN	CHIPR
uib	0.0		CHIP TRANSISTOR		R34		QRSA08J-103YN	CHIP R
	OH	2SC1623	CHIPTRANSISTOR		R35		QRSA08J-103YN	CHIP R
Q19		2SC2778C	CHIP TRANSISTOR		R36		QRSA08J-102YN	CHIP R
	OR	2SC1623	CHIP TRANSISTOR		R37		QRSA08J-102YN	CHIPR
Q20		2SC2778C	CHIP TRANSISTOR	137	R38		PU59237-103	CHIP VR, B CARR BAL
	OR	2SC1623	CHIP TRANSISTOR	14 2		OP		
		1				UH	PU59456-103	CHIP VR
Q21		2SC2778C	CHIP TRANSISTOR	391	R39		PU59237-103	CHIP VR, R CARR BAL
	OR	2SC1623	CHIP TRANSISTOR			OR	PU59456-103	CHIP VR
022		2SC2778C	CHIP TRANSISTOR		R40		PU59237-102	CHIP VR, COL DIFF BAL
	OR	2SC1623				OR	PU57816-2-102	CHIPVR
023	Jin		CHIP TRANSISTOR	1		OR	PU59456-102	CHIP VR
		EMMA	CHIR BAIR TRANSISTOR	5 53			19. 5.11.	
024		FMW2	CHIP PAIR TRANSISTOR		R41		QRSA08J-222YN	CHIP R
Q25		2SC2778C	CHIP TRANSISTOR	1	R42		PU59237-472	CHIP VR, NOISE SUP
						()H	PU57816-2-472	CHIP VR

REF.	NO.	PART NO.	PART NAME, DESCRIPTION	# 🛆	REF. NO.	PART NO.	PART NAME, DESCRIPTION	
R43		QRSA08J-332YN	CHIP R		R91	QRSA08J-562YN	CHIP R	
R44		QRSA08J-273YN	CHIP R		R92		Au _ entitérage	
		QRSA08J-223YN	CHIP R		R93		LOCATION ON THE COURT	
R45			CHIP R				-	
R46		QRSA08J-272YN			R94			
R47		QR\$A08J-332YN	CHIPR		R95	7		
R48		QRSA08J-222YN	CHIP R		R96	-	- 100 - 100 at 1	
R49		QRSA08J-472YN	CHIP R	123	R97	-	-	
R50		PU59237-222	CHIP VR, YH GAIN		R98			
	OR	PU59456-222	CHIP VR		R99	_		
				1 1 1 1	R100	QRSA08J-0R0Y	CHIPR	
			auto a					
R51		QRSA08J-222YN	CHIP R		R101		hard an attendance when	
R52		QRSA08J-273YN	CHIPR					
R53		QRSA08J-223YN	CHIP R		R102			
R54		-		1 3 8	R103		ADEC - ENFORMANCE	
R55		QRSA08J-392YN	CHIP R	1 40	R104	- 1	SHOOL - SEVERALE ASC.	
R56		QRSA08J-152YN	CHIP R		R105	- 1		
R57		PU59237-222	CHIP VR, B-Y GAIN		R106	CAP O VI - VAC	THE - OUR DIVASOR	
H37					R107	- WAY	BHS - ZELDHERVOR	
	OR	PU59456-222	CHIP VR		R108		THE PROPERTY OF THE PARTY OF TH	
R58		QRSA08J-102YN	CHIP R		R109			
R59		QRSA08J-272YN	CHIP R					
R60		PU59237-222	CHIP VR, R SET UP	1	R110			
	OR	PU57816-2-222	CHIP VR					
		PU59456-222	CHIP VR	1	R111	- 1.5 180	ARD BUENELING OF A	
	Jin	. 555-50-222	and a second second		R112	15 TE 15 TE 15 TE	Suita - Direction Tra	
		one in the			R113	23.4	ACCE _ SKILLEDANGE	
R61		QRSA08J-152YN	CHIPR		R114		AS F Lacemonnes .	
R62		PU59237-222	CHIP VR, B SET UP	14.16	R115		AS A PROMISE DATE OF	
	OR	PU57816-2-222	CHIP VR				A STATE OF THE PARTY.	
	OR	PU59456-222	CHIP-VR	13014	R116			
000		DI 150003 000			R117	- 1	NO STATE BEEN MUDICIPED	
R63		PU59237-222	CHIP VR, YL SET UP		R118	_	ACTION TO PROPERTY OF THE PARTY.	
	OR	PU57816-2-222	CHIP VR		R119	_		
	OR	PU59456-222	CHIP VR	-	R120	QRSA08J-223YN	CHIP R	
R64		PU59237-222	CHIP VR, YH SET UP			Q11071000 E20111		
	OR	PU57816-2-222	CHIP VR		D121	ODCA OOL 102VN	CUIPP	
	OR	PU59456-222	CHIP VR		R121	QRSA08J-103YN	CHIPR	
R65		PU59237-222	CHIP VR, V EDGE BALANCE	Part of	R122	PU59237-473	CHIP VR, AGC	
	OP	PU57816-2-222	CHIP VR		OR	PU59456-473	CHIP VR	
			CHIP VR		R123	QRSA08J-103YN	CHIP R	
	UH	PU59456-222			R124	100-000	and the state of t	
R66		QRSA08J-272YN	CHIP R	1 3.7	R125	2 AVX	HIND DOOMSTVINE	
R67		QRSA08J-272YN	CHIP R		R126	THE DAME - LEAST	Tiple of the property of the	
R68		QRSA08J-332YN	CHIP R	1 3	R127			
R69		QRSA08J-103YN	CHIPR			-	-	
R70		QRSA08J-223YN	CHIP R	100	R128	QRSA08J-473YN	CHIP R	
				1 5	R129	QRSA08J-822YN	CHIP R	
R71		QRSA08J-821YN	CHIP R	I SHIT	R130	PU59237-472	CHIP VR, R LIMITER	
R72		QRSA08J-222YN	CHIP R		R131	QRSA08J-103YN	CHIP R	
R73		QRSA08J-132YN	CHIPR		R132	QRSA08J-152YN	CHIP R	
R74		QRSA08J-331YN	CHIP R		R133	QRSA08J-224YN	allin n	
R75		QRSA08J-391YN	CHIP R					
R76		QRSA08J-911YN	CHIP R		R134	QRSA08J-103YN	OLUBB	
R77		QRSA08J-103YN	CHIP R	2.54	R135	QRSA08J-103YN	CHIP R	
R78		QRSA08J-391YN	CHIP R		R136	QRSA08J-272YN	CHIP R	
					R137	QRSA08J-152YN	CHIP R	
R79		QRSA08J-331YN	CHIP R		R138	QRSA08J-332YN	CHIPR	
R80		QRSA08J-561YN	CHIP R			1000		
R81		-	in the - best covered have		R142	QRSA08J-0R0Y	CHIP R	
R82		QRSA08J-393YN	CHIP R		R143	QRSA08J-103YN	CHIP R	
R83		QRSA08J-103YN	CHIPR		R144	QRSA08J-102YN	OUID D	
R84		- 20 A 18 TH			R145		OLUB D	
R85						QRSA08J-154YN		
R86		- 304389		17.73	R146	PU59237-103	CHIP VR, B L.S CARRY BAL	
					R147	QRSA08J-103YN	CHIP R	
R87		S 50478-1	HINDE - AT ATTEMPT TO STATE OF	1	R148	PU59237-103	CHIP VR, R L.S CARRY BAL	
R88					R149	QRSA08J-103YN	CHIP R	
R89		- 1100			R150	QRSA08J-103YN	CHIPR	
R90		QRSA08J-562YN	CHIP R				auci and transaction	
				1				

152	QRSA08J-102YN	CHIP R		C52	ECEV0JV220	CHIP E CAP	
R153	QRD161J-102	CR		C53	ECEVOJV220	CHIP E CAP	
R154	QRD161J-332	CR		C54	QCY81EK-473	CHIP CAP	
R155	QRD161J-394	CR		C55	QCFA1EZ-104	CHIP CAP	
R156				C56	QCY81EK-473	CHIP CAP	
R157	QRD161J-224	CR	199	C57	ECEVOJV220	CHIP E CAP	
			100	C58	ECEVOJV220	CHIP E CAP	
			a new	C59	QCFA1EZ-104	CHIP CAP	
				C60	QCYA1HK-103	CHIP CAP	
1	QCFA1EZ-104	CHIP CAP	DOLD .	000	do l'Allik-103	CHIF CAF	
2		_	Comment of the	004	00000000000	0.410.040	
23	QCSA1HJ-390	CHIP CAP	Total and	C61	QCSA1HJ-470	CHIP CAP	
4	QCSA1HJ-390	CHIP CAP	100	C62	ECEVOGV330	CHIP E CAP	
25	QCYA1HK-103	CHIP CAP	0.8	C63	QCSA1HJ-330	CHIP CAP	
6	QCYA1HK-102	CHIP CAP		C64	QCSA1HJ-330	CHIP CAP	
7	QCYA1HK-103	CHIP CAP	HOLE	C65	QCSA1HJ-330	CHIP CAP	
8			2000	C66	QCSA1HJ-330	CHIP CAP	
	QCSA1HJ-150	CHIP CAP		C67	QCSA1HJ-330	CHIP CAP	
9	QCYA1HK-103	CHIP CAP		C68	QER40JM-226	E CAP	
10	QCSA1HJ-220	CHIP CAP	F. 01 E	C69	QCYA1HK-103	CHIP CAP	
			E OF ST	C70	QCYA1HK-103	CHIP CAP	
211	QCYA1HK-103	CHIP CAP	at train				THE TOTAL
12	QCYA1HK-103	CHIP CAP		C71	QRSA08J-0R0Y	CHIPR	
13	QCYA1HK-103	CHIP CAP	1 619	C72	QCTA1CH-390	CHIP CAP	
214	ECEV1CV100	CHIP E CAP	III WA	C73	ECEVOJV220	CHIP E CAP	
C15	QER40JM-226	E CAP	110	C74	-	-	
216	QER40GM-336	E CAP	ARR BU	C75	QCSA1HK-220	CHIP CAP	
217	QER40JM-106A	E CAP	PILE ME			A SHALLING AND STATE OF THE COLUMN TO SHALL SHALL STATE OF THE COLUMN TO SHALL SHAL	
218	QER41EM-225A	E CAP					
19	QER40JM-226	E CAP	NORTH ST	C100	QCF11HP-103	CCAP	
220	QER40JM-226*	E CAP	Pinn.				
			DEL				
221	QCYA1HK-103	CHIP CAP	Action 1997	C120	QEE41CM-226	TCAP	
222							
23	QCTA1CH-330	CHIP CAP		C121	- 1	genrale 222,525 gerana	
224	ECEV1CV100	CHIP E CAP		C122	QCYA1EK-223	CHIP CAP	
25	ECEV1CV100	CHIP E CAP		C123	ECEVOJV101	CHIP E CAP	
226	ECEV1HVR47	CHIP E CAP		C124	ECEV1CV100	CHIP E CAP	
27	ECEV1CV100	CHIP E CAP		C125	QCTA1CH-330	CHIP CAP	
228	ECEV1CV100	CHIP E CAP		C126	QEE41CM-106	TCAP	
229	ECEVOJN100	CHIP NP CAP		C127	QCYA1HK-103	CHIP CAP	
30	QCFA1EZ-104	CHIP CAP	Part land		40174111111100	a serio may decido de orga	
.50	doi AILL 104	CITI CAI	CATALON STATE				
231	ECEVICVIOO	CHIRECAR	THE PARTY				
	ECEV1CV100	CHIP E CAP					
232	QCFA1EZ-104	CHIP CAP	Edwill Bill	L1	PU58627-120K	CHIP COIL	
233	PU58980-105	CHIP CAP		OR	PU58201-120K	CHIP COIL	
34	ECEVOGV330	CHIP E CAP	AUGUST CO.	L2	PU58627-120K	CHIP COIL	
235	QCYA1HK-103	CHIP CAP	Brook Park	OR	PU58201-120K	CHIP COIL	
36	PU58980-105	CHIP CAP	Caral 9	L3	PU58627-120K		
37	PU58980-105	CHIP CAP	PER S				
38	QEF80GM-475	CHIP T CAP	aria .		PU58201-120K	CHIP COIL	
39	QEF80GM-475	CHIP T CAP	Bria. Del	L4	PU59022-3	CHIP COIL, 22 µH	
240	ECEV0JV220	CHIP E CAP	t ip	L5	PU58385-4R7K	CHIP COIL	
		MIST AVECETEDARKO	P FB	L6	PU58627-120K	CHIP COIL	
241	ECEV0JV220	CHIP E CAP		OR	PU58201-120K	CHIP COIL	
42	_	-	The Section	L7	PU58627-120K	CHIP COIL	
42	OCYAIHK 102	CHIP CAP	brind 18	OR	PU58201-120K	CHIP COIL	
	QCYA1HK-103		and the second	L8	PU59115	FERRITE BEADS	
44	QER40JM-226	E CAP	Lug E	L9	PU59115	FERRITE BEADS	
45	QCYA1HK-103	CHIP CAP		L10	PU59115	FERRITE BEADS	
46	QCYA1HK-103	CHIP CAP					
47	QCYA1HK-103	CHIP CAP		L11	PU59115	FERRITE BEADS	
C48	QCYA1HK-103	CHIP CAP	ALAIN .	L12	PU59115	FERRITE BEADS	
49	QCYA1HK-103	CHIP CAP	S-ta	2.12	. 000110	I LIMITE BEADS	
50	QCFA1EZ-104	CHIP CAP	12.0				
			De La				
51							

		PART NO.	PART NAME, DESCRIPTION	# 217			PART NO.	PART NAME, DESCRIPTION
BPF	1	PU59442	CHIP BAND PASS FILTER		Q1		2SC2412KT-97R	CHIP TRANSISTOR
						OR	2SD601R	CHIP TRANSISTOR
				189	02		-	mior ruoj alocano - ra re
					Q3		2SK198	CHIP FET
LPF1		PU59435	CHIP LOW PASS FILTER	1	04		2SC2778B,C	CHIP TRANSISTOR
LPF2		PU59434	CHIP LOW PASS FILTER			OR	2SC1623	CHIP TRANSISTOR
LPF3		PU59433	CHIP LOW PASS FILTER	130	Q5		DTC144WK	CHIP DIGITAL TRANSISTOR
LITT		1003433	OTH CONTAGOTICIEN		Q6		2SK621	CHIP DIGITAL FET
				150			2SC2778B.C	CHIP TRANSISTOR
				To B	07	0.0		CHIP TRANSISTOR
EQ1		PU59436	CHIP EQUALIZER	1	00	UH	2SC2413KT-96P,Q	CHIP TRANSISTOR
				100	08	0.0	2SC2413KT-97P,Q	CUIRTRANSISTOR
				1		UH	2SC1623	CHIP TRANSISTOR
				127	09		2SC2412KT-97R	CHIP TRANSISTOR
TRA	D1	PU59437	CHIP CERAMIC TRAP			OR	2SC1623	CHIP TRANSISTOR
Ina		FU59437	CHIP CENAMIC THAP	1	010		2SC2778B,C	CHIP TRANSISTOR
						OR	2SC2412KT-97R	CHIP TRANSISTOR
DI -		PLIEDOS	CHIR DELAY LINE	13.19	Q11		2SK198P,Q	CHIP FET
DL1		PU59021	CHIP DELAY LINE		Q12		2SA1037KT-96R	CHIP TRANSISTOR
						OR	2SB709Q,R	CHIP TRANSISTOR
				1.77	013		2SC2778B,C	CHIP TRANSISTOR
						OR	2SC2412KT-96R	CHIP TRANSISTOR
SLD	1	PQ42497-1-1	SHIELD CASE	Pile				State of the state
SLD	2	PQ42687	SHIELD PLATE					
SLD	3	PQ42548-2-1	PLATE					
				12.5	D1			CUID DIODS
					D1		MA151WA	CHIP DIODE
				11.46	D2			THE STATE OF STATE OF STATE
				1	D3		MA151A	CHIP DIODE
TP		PU59111-2	TEST PIN, TP1-17				MA151WA	CHIP DIODE
						OR	DAP202K	CHIP DIODE
			grands avantalousing total	1397	D4		MA151WA	CHIP DIODE
			PRINCE MALE BOXERDS STEELS	104		OR	DAP202K	CHIP DIODE
CN-	V1	PU59114	CAP. HOUSING	1	D5		MA151WA	CHIP DIODE
CN-		PU58654-4	CAP. HOUSING			OR	DAP202K	CHIP DIODE
					D6		-	nch yard and yard
CN-		PU58655-2	CAP. HOUSING		D7		RD8.2ESB2	ZENER DIODE
CN-		PU58252-10	CAP, HOUSING	1710	D8		RD8.2ESB2	ZENER DIODE
CN-		PU58252-4	CAP. HOUSING	NO.	D9		RD8.2ESB2	ZENER DIODE
CN-	V6	PU58252-10	CAP. HOUSING		D10		DAN202K	DIODE
				1				
					D11		MA151K	CHIP DIODE
								CUID DIODE
					D12		MA151K	CHIP DIODE
				1	D13		DAN202K	CHIP DIODE
				1	D14		1SS133	DIODE
					D15		MA151K	CHIP DIODE
				13	D16		MA151K	CHIP DIODE
				100				
					R1		QVZ3606-222	CHIP VR, IND H WIDTH
					R2		QRSA08J-182YN	CHIP R
					R3		QRSA08J-223YN	CHIP R
		DI 122240E 4 0	EE & IND BOARD ARRIV (CA)		R4		QRSA08J-223YN	CHIP R
		PU22248E-1-C	EE & IND BOARD ASS'Y [24]		R5			
101							OBSAGG L 104VN	CHIRD
IC1		MN1239JVQ	FLATIC	-	R6		QRSA08J-104YN	CHIP R
IC2		HA11776AMP	FLAT IC		R7		-	
IC3		UPC324G2	FLAT IC		R8		QVZ3606-103	CHIP VR, WHITE CLIP
	OR	IR3702N2	FLAT IC	No.	R9			THE PART OF THE PROPERTY OF THE PARTY.
IC4		BA6208F	FLAT IC		R10		QRSA08J-682YN	CHIP R
IC5		MN74HCU04S	FLATIC					
	OR	UPD74HC04G2	FLAT IC		R11		QRSA08J-103YN	CHIP R
	OR	LR74HC04N2	FLAT IC	12	R12		QRSA08J-332YN	CHIP R
106		AN8005	INTEGRATED CIRCUIT	19/00	R13		QRSA08J-562YN	CHIP R
				1	R14		QRSA08J-561YN	CHIP R
				1				

47	HEF, NO.	PART NO.	PART NAME, DESCRIPTION		# A REF. NO.	PART NO.	PART NAME, DESCRIPTION	
	R16	QRSA08J-223YN	CHIP R		R75	QRSA08J-100YN	CHIP R	
	R17	QRSA08J-222YN	CHIPR		R76	QRSA08J-272YN	CHIP R	
	R18	QRSA08J-100YN	CHIP R		R77			
	R19	QRSA08J-103YN			The state of the s	QRSA08J-223YN	CHIP R	
			CHIP R		R78	QRSA08J-223YN	CHIP R	
	R20	QRSA08J-682YN	CHIP R		R79	QRSA08J-102YN	CHIP R	
	D21	000400140074	CIVID D		R80	QRSA08J-562YN	CHIP R	
	R21	QRSA08J-103YN	CHIPR					
	R22	QRSA08J-102YN	CHIPR		R81	QRSA08J-333YN	CHIPR	
	R23	QRSA08J-222YN	CHIPR		R82	QRSA08J-183YN	CHIPR	
	R24	QRSA08J-561YN	CHIP R		R83	QRSA08J-103YN	CHIPR	
	R25	QRSA08J-563YN	CHIP R		R84	QRSA08J-272YN	CHIPR	
	R26	QRSA08J-103YN	CHIP R		R85	QRSA08J-103YN	CHIPR	
	R27	QRSA08J-393YN	CHIP R		R86	QRSA08J-684YN	CHIP R	
	R28	QRSA08J-222YN	CHIP R		R87	QRSA08J-102YN	CHIP R	
	R29	QRSA08J-122YN	CHIPR		R88	QRSA08J-102YN	CHIP R	
	R30	QRSA08J-103YN	CHIP R		R89	QRSA08J-103YN	CHIPR	
		4.107.000 100111			R90	QRSA08J-183YN	CHIP R	
	D21	OBCAGGIATOVAL	CHIP R			G110/4003-103114	CHIFA	
	R31	QRSA08J-473YN			R91	QRSA08J-103YN	CHIP R	
	R32	QRSA08J-822YN	CHIP R		R92	QRSA08J-362YN	CHIP R	
	R33	QRSA08J-333YN	CHIPR		R93	QRSA08J-153YN	CHIP R	
	R34	QRSA08J-223YN	CHIPR		R94	QRSA08J-103YN	CHIP R	
	R35	QRSA08J-222YN	CHIP R		R95	QRD161J-223	CR	
	R36	QRSA08J-150YN	CHIPR		R96		Ch	
	R37	QRSA08J-122YN	CHIP R		R97	. –		
	R38	-				QRSA08J-333YN	CHIPR	
	R39	QVZ3606-102	CHIP VR, CHROMA GAIN		R98	QRSA08J-333YN	CHIPR	
	R40	QRSA08J-122YN	CHIP R		R99	QRSA08J-102YN	CHIPR	- 1
			ing the state of t		R100			
	R41	QRSA08J-153YN	CHIP R		R101	QRSA08J-0R0Y	CHIP R	
	R42	QRSA08J-223YN	CHIP R		R102	QRSA08J-105YN		
	R43	QRSA08J-123YN	CHIP R		R103	QRSA08J-104YN	CHIP R	
	R44	QRSA08J-123YN	CHIP R				CHIPR	
	R45	QRSA08J-471YN	CHIP R		R104	QRSA08J-223YN	CHIPR	
	R46	QVZ3606-103	CHIP VR, BURST PHASE		R105	QRSA08J-123YN	CHIPR	
	R47	QRSA08J-104YN	CHIP R					
	R48	QRSA08J-104YN	CHIP R					
	R49	QVZ3606-102	CHIP VR, S.C PHASE				A ATTYCK TO THE STREET STREET	
	R50	QVZ3606-472	CHIP VR, BURST GAIN		C1			
	1130	QV23000-472	CHI VII, BONSI GAIN		. C2	QER41AM-476	E CAP	
					C3	_		
	R51	QRSA08J-103YN	CHIP R		C4	_		
	R52	QRSA08J-103YN	CHIP R		C5	_		
	R53	QRSA08J-104YN	CHIPR		C6	OEB410M 106A	E CAP	
	R54	QRSA08J-103YN	CHIP R		C7	QER41CM-106A		
	R55	QRSA08J-103YN	CHIP R		A PART OF THE RESIDENCE	QER40JM-226	E CAP	
	R56	QRD161J-101	CR		C8	QCYA1HK-103	CHIP CAP	
	R57	QRSA08J-152YN	CHIP R		C9			
	R58	QRSA08J-103YN	CHIP R		C10			
	R59	QRSA08J-182YN	CHIP R		C11	DUEDOOD 105	CHIRCAR	
	R60	QRSA08J-222YN	CHIP R		C11	PU58980-105	CHIP CAP	
		STOWN ON THE			C12	QCYA1HK-103	CHIP CAP	
	R61	QVZ3606-102	CHIP VB IBIS		C13	QER41CM-106A	E CAP	
		QRSA08J-272YN	CHIP VR, IRIS		C14	QCYA1HK-103	CHIP CAP	
	R62		CHIP R		C15	-		
	R63	QRSA08J-104YN	CHIP R		C16	QER41CM-106A	E CAP	
	R64	QRSA08J-103YN	CHIPR		C17	QCYA1HK-103	CHIP CAP	
	R65	QRSA08J-103YN	CHIP R		C18	QCYA1HK-103	CHIP CAP	
	R66	-			C19	QCYA1HK-103	CHIP CAP	
	R67		Harris - Software Add		C20	QEE81AM-476	TCAP	
	R68	QRSA08J-822YN	CHIPR		1216		7.4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	R69	QRSA08J-103YN	CHIP R		C21	QCYA1HK-103	CHIP CAP .	
	R70	QRSA08J-183YN	CHIP R		C22	_	TA TO THE PARTY OF	
					C23	QCFA1EZ-104	CHIP CAP	
	R71	QRSA08J-223YN	CHIP R	rie Tri	C24			
	R72	QRSA08J-223YN	CHIP R			QER41CM-106A	E CAP	
	R73	QRSA08J-223YN	CHIP R		C25	QER40JM-476	E CAP	
	R74	QRSA08J-0R0Y	CHIP R		C26	QCYA1HK-103	CHIP CAP	
		ALIOUADA-AUAT	WHIT II		C27	QCYA1HK-103	CHIP CAP	

A R	EF.NO.	PART NO.	PART NAME, DESCRIPTION	# 🛆	REF. NO.	PAHT NO.	PART NAME, DESCRIPTION
C	28	QCFA1EZ-104	CHIP CAP	File.	CN-E3	PU58250-10	CAP. HOUSING
C	29	QCSA1HJ-391	CHIP CAP		CN-E4	PU58250-10	CAP. HOUSING
C		QER40GM-336	E CAP	P			
0.	30	QE11400W-330	THE COLUMN TO SERVICE AND SERV	12.3	CN-E5	PU58654-7	CAP. HOUSING
0		007441117 400		1	CN-E6	PU58654-6	CAP. HOUSING
C		QCYA1HK-103	OTHER STATE		CN-E7		
C		QCTA1CH-560	CHIP CAP	1600	CN-E8	-	일이 있는 <mark>-</mark> 하는 것 같은 것 같은 생물을 하고
C	33	QCYA1HK-103	CHIP CAP	18.35	CN-E9	THE BALANCE TO	MINOS - DAY SOME STORY CONTROL
C	34	QCYA1HK-103	CHIP CAP	100	CN-E10	PU58654-4	CAP. HOUSING
C	35	QCFA1EZ-104	CHIP CAP				
C	36	QCYA1HK-103	CHIP CAP	1	CN-E11	PU58654-2	CAP, HOUSING
C		QCYA1HK-103	CHIP CAP		CN-E12		
C		QCFA1EZ-104	CHIP CAP	100		PU58654-3	
					CN-E13	PU58654-3	CAP. HOUSING
C		QCYA1HK-102	CHIP CAP	1	CN-E14	PU58252-8	CAP. HOUSING
C	40	QCYA1HK-103	CHIP CAP		CN-E15	PU58654-2	CAP. HOUSING
C	11	QCFA1EZ-104	CHIP CAP				
C		QCFA1EZ-104	CHIP CAP	100			
C		QCYA1HK-103	CHIP CAP				
				13.14			
C		QCSA1HJ-180	CHIP CAP				
C		QCFA1EZ-104	CHIP CAP				
C	16	QCFA1EZ-104	CHIP CAP				
C	17	QER40JM-226	ECAP	1			
C	18	QER40GM-336	E CAP	Park I			
C	49						
C	50	-					
C	51	QCY81EK-473	CHIP CAP				
C		- CTBIEN-4/3	-			PU36017E-02-C	CONTROL BOARD ASS'Y [26]
C	53	QER41CM-106A	E CAP	0.00			
C	54	QER41CM-106A	E CAP		IC701	IR3P50M	FLAT IC
C	55	QCSA1HJ-221	CHIP CAP				
CE	31	QCFA1EZ-104	CHIP CAP		0701	2000010	THE STATE OF THE SHEET
C		QCFA1EZ-104	CHIP CAP		Q701	2SD601Q	CHIP TRANSISTOR
		QCFA1EZ-104		1	Q702	2SD601Q	CHIP TRANSISTOR
CE			CHIP CAP				
C	04	QCFA1EZ-104	CHIP CAP				
					D701	MA704	CHIP ZENER DIODE
				N. P.	D702	MA704	CHIP ZENER DIODE
L	1	The manual of	ATTENDED TO STATE OF THE STATE		D703	RD8.2ESB2	ZENER DIODE
L				188			
				1989	D704	RD8.2ESB2	ZENER DIODE
L		Purpose :					
L	4	PU59022-1	CHIP COIL, 100 µH	1			
L	5	PU58627-220K	CHIP COIL	1000			
	OR	PU58201-220K	CHIP COIL		PD1	PD152V	PHOTO DIODE
L	6	PU58201-220K	CHIP COIL				
	OR	PU58627-220K	CHIP COIL	B. C.			
	:				R701		regiet)conocentration and
					R702		Mulios World Clonand Comment
В	PF1	PU59438	CHIP BAND PASS FILTER			EDT DOCIN 1516	THERMISTOR
	113			18.3	R703	ERT-D2FIK-154S	THERMISTOR
				2.0	R704	QRSA08J-392YN	CHIP R
					R705	QVZ3606-223	CHIP VR, COLOR SENSOR
c	LD1	PQ42548	PLATE	1	R706	QRSA08J-822YN	CHIPR
3	201	1 42546	TLATE	1	R707	QRSA08J-472YN	CHIP R
					R708	QRSA08J-473YN	CHIP R
					R709	QRSA08J-123YN	CHIP R
					R710	QRSA08J-683YN	CHIP R
Т	P	PU59111-2	TEST PIN, TP1-5			G. 10/1003-003 1 N	
					R711	_	SHOTE AN CERTAIN
				5 300	R712	QRSA08J-104YN	CHIP R
					R713	QRSA08J-822YN	CHIP R
C	N-E1	_			R714 R715	QRSA08J-333YN QRSA08J-333YN	

HEF, NC	PART NO.	PART NAME, DESCRIPTION	# A	HEF.NO.	PART NO.	PART NAME, DESCRIPTION
R716	QRSA08J-103YN	CHIP R		C711	QCFA1HZ-152	CHIP CAP
R717	QRSA08J-0R0Y	CHIP R		C712	QER41CM-106A	E CAP
R718	QVZ3606-222	CHIP VR, R GAIN (INDOOR)		C713	QER40GM-476	E CAP
R719	QRSA08J-OROY	CHIP R		C714	QCFA1HZ-103	CHIP CAP
R720	QRSA08J-223YN	CHIP R		C715	QER41CM-226	E CAP
				C716	QER41CM-106A	E CAP
D701	01/70000 470		39 3	C717	QCFA1HZ-103	CHIP CAP
R721	QVZ3606-473	CHIP VR, R GAIN (OUTDOOR)		C718	QER41AM-336	E CAP
R722	QRSA08J-273YN	CHIP R		C719		
R723	QRSA08J-123YN	CHIP R		C/19	QER41AM-476	E CAP
R724	QRSA08J-564YN	CHIP R				
R725	QRSA08J-203YN	CHIP R				
R726	QRSA08J-103YN	CHIP R				MILE BULLETA TO TO BULLET
R727	- CMEEUF	1840 - 187 S.CHERNON FIRMS I		L701	PU58385-4R7K	CHIP COIL
R728	QRSA08J-183YN	CHIP R				
R729	QRSA08J-223YN	CHIP R	100			
R730	QVZ3606-473	CHIP VR, B GAIN (OUTDOOR)				
R731	QRSA08J-223YN	CHIP R		S701	PU57008	TACT SWITCH, FADER
R732	QRSA08J-0R0Y	CHIP R	15 B	S702	PU57008	TACT SWITCH, BLC
R733	QVZ3606-222	CHIP VR, B GAIN (INDOOR)	E 1	S703	PU57008	TACT SWITCH, FULL AUTO SET
R734	QRSA08J-0R0Y	CHIP R		S704	PU57008	TACT SWITCH, PRESET
R735	QRSA08J-393YN	CHIPR		S705	PU57008	TACT SWITCH,
						FOCUS AUTO/MANUAL
R736	QRSA08J-0R0Y	CHIP R	3 1 1807			
R737	QRSA08J-433YN	CHIP R	1 1			
R738	QRSA08J-822YN	CHIP R	S 10	TP	PU58465	TEST PIN, TP701
R739	QRSA08J-333YN	CHIPR		IF	PU58405	TEST PIN, TP/OT
R740	QRSA08J-123YN	CHIPR	20 17			
R741	QRSA08J-513YN	CHIP R	\$ 1 be			
R742	QRSA08J-113YN	CHIP R		CN-C1	PU58654-15	CAP. HOUSING
R743	QRSA08J-562YN	CHIP R		CN-C2		all as the first angle and again
R744	QRSA08J-564YN	CHIPR		CN-C3	PU58654-3	CAP. HOUSING
R745	QRSA08J-102YN	CHIP R		CIV-C3	FU30034-3	CAF. HOUSING
R746	QRSA08J-223YN					
R747	QRSA08J-223YN	CHIP R				
R748	QRSA08J-122YN	CHIP R				NUMBER OF STREET
R749		CHIP R		SLD1	PQ42547-1-1	W/B SHIELD CASE
	QRSA08J-222YN	CHIPR		SLD2	PU59059	CASE
R750	QRSA08J-152YN	CHIPR		SLD3	PQ42617-1-1	W/B SHIELD PLATE
D.754	000100110011	STEEL ST		SLD4	PQ42548-3	PLATE
R751	QRSA08J-101YN	CHIPR	1914		PQ42493	IR CUT FILTER
R752	QRSA08J-122YN	CHIP R	200	HD1	PQ42421	FILTER HOLDER
R753	QVZ3606-223	CHIP VR, OUTDOOR PRESET				
R754	QVZ3606-472	CHIP VR, INDOOR PRESET				
B701	QRSA08J-0R0Y	CHIP R	300			
B702	QRSA08J-0R0Y	CHIP R				
B703	-					
B704	QRSA08J-OROY	CHIP R				
B705	QRSA08J-0R0Y	CHIP R				
B706	- 0					
B707	QRSA08J-0R0Y	CHIP R				
					PLI11304P2	TRIGGER BOARD ASS'Y [27]
C701	QER41CM-226	E CAP			PU11394B3	INIGGEN BOAND ASS T [27]
C701		CHIP CAP		SW1	PU59007	PUSH SWITCH, TRIGGER
	QCFA1HZ-103		12 A			
C703	QCFA1EZ-104	CHIP CAP				
C704	QCYA1HK-103	CHIP CAP				
C705	QEE41AM-685	T CAP				
C706	QCFA1EZ-104	CHIP CAP				
C707	QCYA1HK-682	CHIP CAP				
C708	QER41AM-336	E CAP				
C709	PU58980-105	CHIP CAP				
C710	QCFA1HZ-152	CHIP CAP				

PUSSISE C REGULATOR BOARD ASS'Y [28]	REF. NO	. PART NO.	PART NAME, DESCRIPTION	# A REF. NO.	PART NO.	PART NAME, DESCRIPTION
C1				TP	PU59111-2	TEST PIN, TP1
C2		PU36016E-C	REGULATOR BOARD ASS'Y [28]	THE CONTRACTOR		
C2	IC1	M5236ML	FLATIC			
CNR2 PUSBSS-6 CAP. HOUSING CNR3 PUSBSS-6 CAP. HOUSING CAP. HOUSIN				CNDI	DI IERGEA G	CAR HOUSING
CN R3 PUS9250-8 CAP, HOUSING						
1				The second second second		
R1				CIV-N3	7 030230-0	CAL HOUSING
R1	Q1	2SB793R	TRANSISTOR			
R2						
R2						
R2	R1	ORSA08.I-221YN	CHIPB			
## 1						
## ## ## ## ## ## ## ## ## ## ## ## ##			2 Can A T Street			
R6	R4					
R7	R5					
R7	R6	QVZ3531-222	VR, 8 V ADJ			
C1 QED41EM-396 E CAP C2 QCYA1HK-103 CHIP CAP C3 QCYA1HK-103 CHIP CAP C5 QED41EM-396 E CAP C6 QCYA1HK-103 CHIP CAP C7 QCYA1HK-103 CHIP CAP C8 QED41EM-396 E CAP C9 QED41EM-396 E CAP C9 QED41EM-396 E CAP C1 QCYA1HK-103 CHIP CAP C2 QED41AM-22 E CAP C2 QED41AM-22 E CAP C3 QCYA1HK-103 CHIP CAP C2 QED41AM-22 E CAP C1 QCYA1HK-103 CHIP CAP C2 QED41AM-22 E CAP C3 QCYA1HK-103 CHIP CAP C4 QCYA1HK-103 CHIP CAP C5 QED41AM-25 E CAP C6 QCYA1HK-103 CHIP CAP C7 QCYA1HK-103 CHIP CAP C8 QCYA1HK-103 CHIP CAP C9 QCYA1HK-103 CHIP CAP C1 QCYA1HK-103 CHIP CAP C1 QCYA1HK-103 CHIP CAP C1 QCYA1HK-103 CHIP CAP C1 QCYA1HK-103 CHIP CAP C2 QED40JM-177 E CAP C3 QCYA1HK-103 CHIP CAP C4 QCYA1HK-103 CHIP CAP C5 QCYA1HK-103 CHIP CAP C6 QCYA1HK-103 CHIP CAP C7 QCYA1HK-103 CHIP CAP C8 QCYA1HK-103 CHIP CAP C9 QCYA1HK-103 CHIP CAP C1 QCYA1HCA-103 CHIP CAP C1 QCYA1	R7	QRSA08J-123YN				
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C1					PU59192C-C	PAL SUB BOARD ASS'Y [29]
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C2 OCYAHK-103 CHIP CAP C3 OCYAHK-103 CHIP CAP C4 OED41EM-396 E CAP C5 OED41EM-396 E CAP C6 OCYAHK-103 CHIP CAP C7 OCYAHK-103 CHIP CAP C8 OED41EM-395 E CAP C9 OED41EM-395 E CAP C10 OCYAHK-103 CHIP CAP C11 OCYAHK-103 CHIP CAP C12 OED41AM-826 E CAP C13 OED41AM-826 E CAP C14 OCYAHK-103 CHIP CAP C15 OED41AM-826 E CAP C16 OCYAHK-103 CHIP CAP C17 OED41AM-826 E CAP C18 OED41AM-826 E CAP C19 OCYAHK-103 CHIP CAP C19 OED41AM-826 E CAP C10 OCYAHK-103 CHIP CAP C11 OCYAHK-103 CHIP CAP C12 OED41AM-826 E CAP C13 OED41AM-826 E CAP C14 OCYAHK-103 CHIP CAP C15 OCYAHK-103 CHIP CAP C16 OCYAHK-103 CHIP CAP C17 OED41AM-826 E CAP C18 OCFAHE-7104 CHIP CAP C19 OCYBIEK-473 CHIP CAP C20 OED41AM-826 E CAP C21 OCYAHK-103 CHIP CAP C20 OED41AM-826 E CAP C21 OCYAHK-103 CHIP CAP C20 OED41AM-826 E CAP C21 OCYAHK-103 CHIP CAP C22 OED40AM-127 E CAP C23 OCYBIEK-473 CHIP CAP C24 OED41AM-826 E CAP C25 OED41AM-826 C CAP C26 OED41AM-826 C CAP C27 OED41AM-826 C CAP C28 OED41AM-826 C CAP C29 OED41AM-826 C CAP C20 OED41AM-826 C CAP C21 OCYAHK-103 CHIP CAP C22 OED40AM-127 C CAP C23 OCYBIEK-473 CHIP CAP C24 OED40AM-127 C CAP C25 OED40AM-127 C CAP C26 OED41AM-826 C CAP C27 OED40AM-127 C CAP C28 OED40AM-127 C CAP C29 OED41AM-826 C CAP C30 OCYBIEK-473 CHIP CAP C4D OED41AM-826 C CAP C5D OED41AM-826 C CAP C7D OED41AM-826 C CAP C7D OED41AM-826 C CAP C7D OED41AM-826 C CAP	C1	OED41EM-396	E CAP	Q1024	FMS2	CHIP PAIR TRANSISTOR
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C4						
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C10	C9	QED41AM-826	E CAP			
C11	C10	QCYA1HK-103	CHIP CAP			
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C19	C18		CHIP CAP		PO42533	BOARD PLATE
C20 QED41AM-826 E CAP SCR1 SDSP2003Z SCREW C21 QCYA1HK-103 CHIP CAP C22 QED40JM-127 E CAP C23 QCYA1HK-103 CHIP CAP L1 PU59025 B.F.C.C. COIL, 100 µH L2 PU59025 B.F.C.C. COIL, 100 µH L3 PU59025 B.F.C.C. COIL, 100 µH L4 — — — — — — — — — — — — — — — — — — —	C19	QCY81EK-473	CHIP CAP	10 to	1 412000	A LOVER LOT ASSESSMENT AND ASSESSMENT
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L1 PU59025 B.F.C.C. COIL, 100 µH L2 PU59025 B.F.C.C. COIL, 100 µH L3 PU59025 B.F.C.C. COIL, 100 µH L4 — — L5 PU58385-4R7K CHIP COIL ⚠ DD CON1 PU59116-2 DC-DC CONVERTER ⚠ OR PU59221 DC-DC CONVERTER						
L2 PU59025 B.F.C.C. COIL, 100 μH L3 PU59025 B.F.C.C. COIL, 100 μH L4 — — L5 PU58385-4R7K CHIP COIL Δ DD CON1 PU59116-2 DC-DC CONVERTER Δ OR PU59221 DC-DC CONVERTER	L1	PU59025	B.F.C.C. COIL. 100 µH			
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△ OR PU59221 DC-DC CONVERTER	A DD CON	1 PU59116-2	DC-DC CONVERTER			
	٨			No. 10 Telephone		
하지만 하지 않는데 얼마를 하게 하면 하게 되었다. 아무리 전화 경우 경우 이번 경우 이번 경우 이번 경우 이번 경우 경우 경우 이번 경우 이번 경우						

	NEF.		PART NO.	PART NAME, DESCRIPTION	# 213	REF. NO.	PART NO.	PART NAME, DESCRIPTION
						C31	QCFA1HZ-223	CHIP CAP
			PU59336B1	ELECTRONIC VIEWFINDER (1)	THE STATE OF	C32	QER41CM-106	E CAP
			100933061	BOARD ASS'Y [30]		C33	QCTA1UJ-152	CHIP CAP
				50AH5 A66 1 (66)				
	IC1		AN2510S	INTEGRATED CIRCUIT				
	IC2		AN78L05	INTEGRATED CIRCUIT		C41	QEK41HM-225	E CAP
		OR	TA78L005AP	INTEGRATED CIRCUIT		C42	QEK41CM-106	E CAP
						C43	QEK41CM-106	E CAP
						C44	QCTA1CH-161	CHIP CAP
						C45	QCFA1HZ-333	CHIP CAP
	TR2		2002012	CHIRTDANISISTOR		C46	QEK41CM-106	E CAP
	inz	0.0	2SC2812	CHIP TRANSISTOR			derittom too	2 0/1
		UH	2SC2712GL	CHIP TRANSISTOR	180			
						L11	PU59090-58	COIL, 47 µH
	D41		DAP202K	CHIP DIODE				
		OR	DSA010	CHIP DIODE	199			
			MA152A	CHIP DIODE				
						CP	ICP-N10	CIRCUIT PROTECTOR
	R21		QRSA08J-471YN	CHIP R		TH	PU59340	THERMISTOR
	R22		QRSA08J-561YN	CHIP R				
	R23		QRSA08J-471YN	CHIP R	1			
	R24		QRSA08J-682YN	CHIP R	144.50			
	R25		QRSA08K-3R9YN	CHIP R				
	R26		QRSA08J-151YN	CHIP R				
	R27		QRSA08J-102YN					
	R28			CHIP R	291			
	R29		QRSA08J-202YN	CHIP R	328			
	R30		ORSA08J-332YN ORSA08J-180YN	CHIP R				
					Veter.		17 3 411	all the strong of the specific
	R31		QRSA08J-122YN	CHIPR	MELE		PU59336B2	ELECTRONIC VIEWFINDER (2)
Δ	R31 R32		QRSA08J-122YN QRSA08J-683YN	CHIP R			PU59336B2	ELECTRONIC VIEWFINDER (2) BOARD ASS'Y [31]
Δ							PU59336B2	
Δ	R32		ORSA08J-683YN	CHIP R	<u>A</u>	TR1	PU59336B2 2SD774	
Δ	R32 R33		QRSA08J-683YN QRSA08J-222YN	CHIP R	Δ			BOARD ASS'Y [31]
Δ	R32 R33 R34		QRSA08J-683YN QRSA08J-222YN QRSA08J-562YN	CHIP R CHIP R	Δ		2SD774	BOARD ASS'Y [31] TRANSISTOR
\triangle	R32 R33 R34		QRSA08J-683YN QRSA08J-222YN QRSA08J-562YN QRSA08J-153YN	CHIP R CHIP R CHIP R	Δ		2SD774	BOARD ASS'Y [31] TRANSISTOR
A	R32 R33 R34 R41 R42		QRSA08J-683YN QRSA08J-222YN QRSA08J-562YN QRSA08J-153YN QRSA08J-202YN	CHIP R CHIP R CHIP R CHIP R	Δ		2SD774	BOARD ASS'Y [31] TRANSISTOR
Δ	R32 R33 R34 R41 R42 R43		QRSA08J-683YN QRSA08J-222YN QRSA08J-562YN QRSA08J-153YN QRSA08J-202YN QRSA08J-822YN	CHIP R CHIP R CHIP R CHIP R CHIP R CHIP R	Δ		2SD774	BOARD ASS'Y [31] TRANSISTOR TRANSISTOR
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Δ	R32 R33 R34 R41 R42 R43 R44 R45		QRSA08J-683YN QRSA08J-222YN QRSA08J-562YN QRSA08J-153YN QRSA08J-202YN QRSA08J-822YN QRSA08J-183YN QRSA08J-202YN	CHIP R		OR D51	2SD774 2SD763	BOARD ASS'Y [31] TRANSISTOR TRANSISTOR DIODE
\triangle	R32 R33 R34 R41 R42 R43 R44 R45 R46		QRSA08J-683YN QRSA08J-562YN QRSA08J-562YN QRSA08J-153YN QRSA08J-202YN QRSA08J-822YN QRSA08J-183YN QRSA08J-202YN QRSA08J-334YN	CHIP R		OR D51 D52	2SD774 2SD763 1SS136 1SS133	BOARD ASS'Y [31] TRANSISTOR TRANSISTOR DIODE DIODE
▲	R32 R33 R34 R41 R42 R43 R44 R45		QRSA08J-683YN QRSA08J-222YN QRSA08J-562YN QRSA08J-153YN QRSA08J-202YN QRSA08J-822YN QRSA08J-183YN QRSA08J-202YN	CHIP R	A	OR D51 D52 D53	2SD774 2SD763 1SS136 1SS133 ERA15-06	BOARD ASS'Y [31] TRANSISTOR TRANSISTOR DIODE DIODE DIODE DIODE
\triangle	R32 R33 R34 R41 R42 R43 R44 R45 R46		QRSA08J-683YN QRSA08J-222YN QRSA08J-562YN QRSA08J-153YN QRSA08J-202YN QRSA08J-822YN QRSA08J-183YN QRSA08J-202YN QRSA08J-334YN	CHIP R	A	D51 D52 D53 D54	2SD774 2SD763 1SS136 1SS133 ERA15-06 ERA15-06	BOARD ASS'Y [31] TRANSISTOR TRANSISTOR DIODE DIODE DIODE DIODE DIODE
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A	R32 R33 R34 R41 R42 R43 R44 R45 R46 R47		ORSA08J-683YN ORSA08J-562YN ORSA08J-562YN ORSA08J-153YN ORSA08J-202YN ORSA08J-822YN ORSA08J-183YN ORSA08J-202YN ORSA08J-334YN ORSA08J-472YN PU59090-54 PU59090-55 PU59090-56	CHIP R	A	D51 D52 D53 D54 R51 R52 R53	2SD774 2SD763 1SS136 1SS133 ERA15-06 ERA15-06 QRD163J-750 QRD163J-102 QRD183J-625	BOARD ASS'Y [31] TRANSISTOR TRANSISTOR DIODE DIODE DIODE DIODE CR CR CR
A	R32 R33 R34 R41 R42 R43 R44 R45 R46 R47 VR1 VR2 VR3 VR4		ORSA08J-683YN ORSA08J-222YN ORSA08J-562YN ORSA08J-153YN ORSA08J-202YN ORSA08J-822YN ORSA08J-183YN ORSA08J-183YN ORSA08J-334YN ORSA08J-472YN PU59090-54 PU59090-55 PU59090-56 PU59090-57	CHIP R	A	D51 D52 D53 D54 R51 R52	2SD774 2SD763 1SS136 1SS133 ERA15-06 ERA15-06	BOARD ASS'Y [31] TRANSISTOR TRANSISTOR DIODE DIODE DIODE DIODE DIODE CR CR
•	R32 R33 R34 R41 R42 R43 R44 R45 R46 R47		ORSA08J-683YN ORSA08J-562YN ORSA08J-562YN ORSA08J-153YN ORSA08J-202YN ORSA08J-822YN ORSA08J-183YN ORSA08J-202YN ORSA08J-334YN ORSA08J-472YN PU59090-54 PU59090-55 PU59090-56	CHIP R	A	D51 D52 D53 D54 R51 R52 R53	2SD774 2SD763 1SS136 1SS133 ERA15-06 ERA15-06 QRD163J-750 QRD163J-102 QRD183J-625	BOARD ASS'Y [31] TRANSISTOR TRANSISTOR DIODE DIODE DIODE DIODE CR CR CR CR
A	R32 R33 R34 R41 R42 R43 R44 R45 R46 R47 VR1 VR2 VR3 VR4		ORSA08J-683YN ORSA08J-222YN ORSA08J-562YN ORSA08J-153YN ORSA08J-202YN ORSA08J-822YN ORSA08J-183YN ORSA08J-183YN ORSA08J-202YN ORSA08J-334YN ORSA08J-472YN PU59090-54 PU59090-55 PU59090-56 PU59090-57	CHIP R	A	D51 D52 D53 D54 R51 R52 R53 RX1 RX2	2SD774 2SD763 1SS136 1SS133 ERA15-06 ERA15-06 QRD163J-750 QRD163J-102 QRD183J-625 QRD163J-3R3 QRD163J-0R0	BOARD ASS'Y [31] TRANSISTOR TRANSISTOR DIODE DIODE DIODE DIODE CR CR CR CR
	R32 R33 R34 R41 R42 R43 R44 R45 R46 R47 VR1 VR2 VR3 VR4		ORSA08J-683YN ORSA08J-222YN ORSA08J-562YN ORSA08J-153YN ORSA08J-202YN ORSA08J-822YN ORSA08J-183YN ORSA08J-183YN ORSA08J-202YN ORSA08J-334YN ORSA08J-472YN PU59090-54 PU59090-55 PU59090-56 PU59090-57 OEK41AM-107	CHIP R CH	A	D51 D52 D53 D54 R51 R52 R53 RX1 RX2	2SD774 2SD763 1SS136 1SS133 ERA15-06 ERA15-06 QRD163J-750 QRD163J-102 QRD183J-625	BOARD ASS'Y [31] TRANSISTOR TRANSISTOR DIODE DIODE DIODE DIODE CR CR CR CR
	R32 R33 R34 R41 R42 R43 R44 R45 R46 R47 VR1 VR2 VR3 VR4		ORSA08J-683YN ORSA08J-562YN ORSA08J-562YN ORSA08J-153YN ORSA08J-202YN ORSA08J-822YN ORSA08J-183YN ORSA08J-183YN ORSA08J-202YN ORSA08J-334YN ORSA08J-472YN PU59090-54 PU59090-55 PU59090-56 PU59090-57 OEK41AM-107	CHIP R	A	D51 D52 D53 D54 R51 R52 R53 RX1 RX2	2SD774 2SD763 1SS136 1SS133 ERA15-06 ERA15-06 QRD163J-750 QRD163J-102 QRD183J-625 QRD163J-3R3 QRD163J-0R0	BOARD ASS'Y [31] TRANSISTOR TRANSISTOR DIODE DIODE DIODE DIODE CR CR CR CR
	R32 R33 R34 R41 R42 R43 R44 R45 R46 R47 VR1 VR2 VR3 VR4	OR	ORSA08J-683YN ORSA08J-222YN ORSA08J-562YN ORSA08J-153YN ORSA08J-202YN ORSA08J-202YN ORSA08J-822YN ORSA08J-183YN ORSA08J-202YN ORSA08J-334YN ORSA08J-472YN PU59090-54 PU59090-55 PU59090-56 PU59090-57 OEK41AM-107 OER41EM-475 OCYA1HK-561 OCYA1HK-681	CHIP R CHIP CAP CHIP CAP	A	D51 D52 D53 D54 R51 R52 R53 RX1 RX2	2SD774 2SD763 1SS136 1SS133 ERA15-06 ERA15-06 QRD163J-750 QRD163J-102 QRD183J-625 QRD163J-3R3 QRD163J-0R0	BOARD ASS'Y [31] TRANSISTOR TRANSISTOR DIODE DIODE DIODE DIODE CR CR CR CR CR CR
	R32 R33 R34 R41 R42 R43 R44 R45 R46 R47 VR1 VR2 VR3 VR4	OR	ORSA08J-683YN ORSA08J-222YN ORSA08J-562YN ORSA08J-153YN ORSA08J-202YN ORSA08J-202YN ORSA08J-83YN ORSA08J-83YN ORSA08J-202YN ORSA08J-334YN ORSA08J-472YN PU59090-54 PU59090-55 PU59090-56 PU59090-57 OEK41AM-107 OER41EM-475 OCYA1HK-561 OCYA1HK-681 OEE41VM684	CHIP R CHIP CHIP R CHIP CHIP R CHIP CAP CHIP CAP CHIP CAP	A	D51 D52 D53 D54 R51 R52 R53 RX1 RX2 C51 C52	2SD774 2SD763 1SS136 1SS133 ERA15-06 ERA15-06 QRD163J-750 QRD163J-102 QRD183J-625 QRD163J-3R3 QRD163J-0R0 QEK41HM-105 QETA1HM-226	BOARD ASS'Y [31] TRANSISTOR TRANSISTOR DIODE DIODE DIODE DIODE CR CR CR CR CR CR CR
	R32 R33 R34 R41 R42 R43 R44 R45 R46 R47 VR1 VR2 VR3 VR4 C111	OR	ORSA08J-683YN ORSA08J-562YN ORSA08J-562YN ORSA08J-153YN ORSA08J-202YN ORSA08J-822YN ORSA08J-183YN ORSA08J-183YN ORSA08J-202YN ORSA08J-334YN ORSA08J-472YN PU59090-54 PU59090-55 PU59090-56 PU59090-57 OEK41AM-107 OER41EM-475 OCYA1HK-561 OCYA1HK-681 OEE41VM684 OEK41AM-336	CHIP R CHIP CHIP R CHIP CHIP R CHIP CHIP CHIP CAP CHIP CAP C CHIP CAP C CAP C CAP C CAP C CAP C CAP C CAP	A A	D51 D52 D53 D54 R51 R52 R53 RX1 RX2 C51 C52 C53	2SD774 2SD763 1SS136 1SS133 ERA15-06 ERA15-06 QRD163J-750 QRD163J-102 QRD183J-625 QRD163J-3R3 QRD163J-0R0 QEK41HM-105 QETA1HM-226 QET1AM-107	BOARD ASS'Y [31] TRANSISTOR TRANSISTOR DIODE DIODE DIODE DIODE CR CR CR CR CR CR CR CR
	R32 R33 R34 R41 R42 R43 R44 R45 R46 R47 VR1 VR2 VR3 VR4	OR	ORSA08J-683YN ORSA08J-222YN ORSA08J-562YN ORSA08J-153YN ORSA08J-202YN ORSA08J-202YN ORSA08J-83YN ORSA08J-83YN ORSA08J-202YN ORSA08J-334YN ORSA08J-472YN PU59090-54 PU59090-55 PU59090-56 PU59090-57 OEK41AM-107 OER41EM-475 OCYA1HK-561 OCYA1HK-681 OEE41VM684	CHIP R CHIP CHIP R CHIP CHIP R CHIP CAP CHIP CAP CHIP CAP	A	D51 D52 D53 D54 R51 R52 R53 RX1 RX2 C51 C52 C53 C54 C55	2SD774 2SD763 1SS136 1SS133 ERA15-06 ERA15-06 QRD163J-750 QRD163J-102 QRD183J-625 QRD163J-3R3 QRD163J-0R0 QEK41HM-105 QETA1HM-226 QET1AM-107 QETA1CM-476	BOARD ASS'Y [31] TRANSISTOR TRANSISTOR DIODE DIODE DIODE DIODE CR CR CR CR CR CR CR CR CR

# 🛆	REF.	NO.	PART NO.	PART NAME, DESCRIPTION	1
	C56		PU59090-51	FM CAP, 1500 P/400	
Δ	CN2		PU59090-52	CRT SOCKET	
Δ	TF		PU59090-42	THERMAL FUSE	
Δ	FBT		PU59090-27	FLYBACK TRANS SET, INCL. RX1, RX2, C55	
	RX1		QRD161J-0R0	CR	
			QRD161J-3R3	CR	
			QRD161J-7R2	CR	
	HX2		QRD161J-0R0 QRD161J-684	CR CR	
	C55		PU59090-47	PP CAP, 680 P/100	1
			PU59090-48	PP CAP, 1000 P/100	
			PU59090-49	PP CAP, 1500 P/100 PP CAP, 2000 P/100	
		On	PU59090-50	FF CAF, 2000 F/100	
	HLC		PU59090-28	HLC SET, INCL. RX1, RX2, C55	
	RX1		QRD161J-0R0	CR	
		OR	QRD161J-3R3	CR	
		OR	QRD161J-7R2	CR	
	RX2		QRD161J-0R0	CR	
		OR	QRD161J-684	CR	
	C55		PU59090-47	PP CAP, 680 P/100	
		OR	PU59090-48	PP CAP, 1000 P/100	
		OR	PU59090-49	PP CAP, 1500 P/100	
		OR	PU59090-50	PP CAP, 2000 P/100	
			PU59090-25	DEFLECTION YOKE, INCL. RX1,	-

Δ	REF.	NO.	PART NO.	PART NAME, DESCRIPTION
			PU59090-26	CRT, INCL. RX1, RX2, C55
	RX1		QRD161J-0R0	CR
		OR	QRD161J-3R3	CR
		OR	QRD161J-7R2	CR
	RX2		QRD161J-0R0	CR
			QRD161J-684	CR
	C55		PU59090-47	PP CAP, 680 P/100
		OR	PU59090-48	PP CAP, 1000 P/100
		OR	PU59090-49	PP CAP, 1500 P/100
		OR	PU59090-50	PP CAP, 2000 P/100

NOTE: RX1, RX2 AND C55 ARE INCLUDED IN FLYBACK TRANS SET, HLC SET, DEFLECTION YOKE AND CRT. WHEN THESE SETS ARE CHANGED: IF H SCAN SIZE MALFUNCTIONS BY INFLUENCE OF OTHER SETS, CHANGING THESE PARTS (RX1, RX2 OR C55), MAKE A NORMAL.

PU59090-25 DEFLECTION YOKE, INCL. RX1, RX2, C55

RX1 QRD161J-0R0 CR
OR QRD161J-3R3 CR
OR QRD161J-7R2 CR
RX2 QRD161J-0R0 CR
QRD161J-684 CR

C55 PU59090-47 PP CAP, 680 P/100

OR PU59090-49 PC CAP, 680 P/100
OR PU59090-49 PC CAP, 1500 P/100
OR PU59090-50 PP CAP, 2000 P/100

SERVICE MANUAL

CAR BATTERY CHARGER

BH-V5E



Free service manuals Gratis schema's

Digitized by



SPECIFICATIONS

Input Output : DC 12 V == 30 W (Negative grounded cars only)

: DC 9.6 V ____ , 1,5 A

Dimensions

: $57(W) \times 69(H) \times 195(D)$ mm (2-1/4" x 2-3/4" x 7-11/16")

Weight

: 540 g (1.19 lbs)

INSTRUCTIONS

MANUEL D'INSTRUCTIONS BEDIENUNGSANLEITUNG MANUAL DE INSTRUCCIONES GEBRUIKSAANWIJZING



CHARGEUR DE BATTERIE A PARTIR DE LA VOITURE AUTOBATTERIE-LADEGERÄT CARGADOR DE BATERIA DEL AUTOMOVIL AUTOAKKU-OPLADER

Specifically for the BH-V5E Special pour le BH-V5E Für Modellausführung BH-V5E Especialmente para la BH-V5E Speciaal voor de BH-V5E

PU30425-858

Thank you for purchasing the JVC BH-V5E Car Battery Charger. This unit plugs into a car's cigarette lighter socket to charge NB-P5U, NB-P6U, NB-P7U and NB-P8U Battery Packs, for exclusive use with the JVC VideoMovie. It can also be used to provide DC power for the JVC GR-C1/GR-C2/GR-C7 VideoMovie. To avoid problems and obtain the best results, please read this instruction booklet carefully before use.

To prevent electric shock, do not open the cabinet. No user serviceable parts inside. Refer servicing to qualified service

WARNING-DANGEROUS **VOLTAGE INSIDE**

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

This unit should be used with DC 12 V == only.
(FOR NEGATIVE GROUNDED CARS ONLY)

To prevent electric shocks and fire hazards, do NOT use any other power source.

The rating plate (serial number plate) is on the side of the

PRECAUTIONS OF GENERAL THE REST OF STATE SHIT

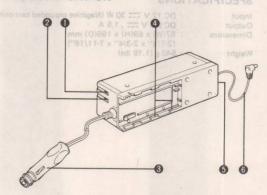
- As a car battery adapter/charger, the BH-V5E is used exclusive-
- ly with the JVĆ GR-C1/GR-C2/GR-C7 VideoMovie.

 Prevent inflammables, water and metallic objects from entering
- Do not disassemble or modify the unit.
- Do not apply shocks to the unit.
 Do not subject the unit to direct sunlight.
- Avoid using the unit in extremely hot or humid places.
- Avoid using the unit in places subject to excessive vibrations.
 When not in use, remove the plug of the BH-V5E from the
- lighter socket. • Do not use the BH-V5E near the car's antenna or car audio
- components. It may cause sound interference. Remove the charger's plug from the lighter socket before start-
- ing the car's engine and when the engine is turned off. The BH-V5E becomes hot while it is being used, but this is not due to any defect of this unit.
- Oscillations may be heard inside the BH-V5E while it is being used, but this is not due to any defect of this unit.

 When using such car accessories as the stereo, CB radio or air-conditioner, the BH-V5E may not operate because the car battery's voltage is too low. To solve this problem, remove the plug from the lighter socket, stop using the car accessories, and re-insert the plug.

If the cigarette lighter socket is dirty, it may not provide power and must be cleaned. To prevent shock, clean it with non-metallic materials.

IDENTIFICATION



POWER indicator

Lights when the cigarette lighter plug is inserted into a car's lighter socket.

O CHARGE indicator Remains lighted during charging and goes off when charging is completed.

O Cigarette lighter plug

@ Terminals

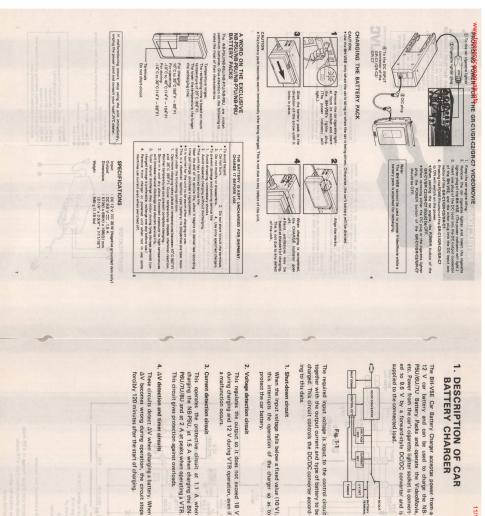
O DC output connector 1 DC cord

NB-P5U: Approx. 60 minutes (This special type of battery

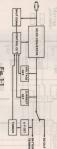
requires a long charging time.)

NB-P6U: Approx. 35 minutes

NB-P7U: Approx. 50 minutes
NB-P8U: Approx. 90 minutes
• The charging time differs depending on the ambient temperature and condition of the battery pack.



1. DESCRIPTION OF CAR BATTERY CHARGER



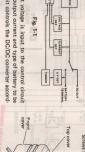
The required input voltage is input to the control circuit together with the output current and type of battery to be charged. This circuit controls the DC/DC converter according

When the input voltage falls below a fixed value (10 V), this interrupts the operation of the charger so as to protect the car battery.

This regulates the output so it does not exceed 18 V during charging and 12 V during VTR operation, even if a malfunction occurs.

These circuits detect ΔV when charging a battery. When ΔV becomes wrong during operation, the circuit stops forcibly 120 minutes after the start of charging.

The BHVBE Car Battery Charger accepts power from a 12 V car battery and can be used to charge the NB-PSU/BU/TU Battery Packs and operage the VideoMovie, etc. Power from the ear's objected lighter socket is converted to 85 V by a forward-style DC/DC converter and is supplied to the connected load.



 To remove the front and rear panels, lift up while pressing heat sink after the top cover has been removed. Remove screw (2) shown in Fig. 2-2 to remove the LED. Fig. 2-1

ews (1)

3. Remove screws (3) and (4). Now lift the heat sink to remove connector (A). The main board can now be removed.



Fig. 2-2

After the main Board is removed, remove screws (§) and the shield case as shown in Fig. 2.3. Now the sub-board can be removed.



2. DISMANTLING PROCEDURE 3. ELECTRICAL ADJUSTMENTS OR THUDBID DIA DITAMBHD2 .4

Server O Rear panel	Remove 4 screws to remove the top cover. (Refer to	2.1 EXTERNAL COVER AND CIRCUIT BOARD REMOVAL	
	-	No.	
voltage	Adjustment Battery of output terminal	Item	
	Battery	Check Poir	
board	RV1	Adjustment Parts	
NB-P6U mode	NB-P6U mode	Check Point Adjustment Mode/Conditions	
NB-P6U mode 2) Adjust the load so that the battery terminal vol- tage is 10 – 12 V. Turn RV1 so that the current is 1.5 A. NB-P6U mode 3) After adjusting the load for the specified voltage, confirm that the charging current is 1.1 ± 0.1 A.	NB-P6U mode 1) Operate the charger with an input voltage of $10.5\mathrm{V}$.	s Adjustments & Confirmations	A 1 SCHEMATIC DIAGRAM

				J	88.39 88.39		voltage	of output	Walasmeit De cola
CKS 233		× 1189		BH-V5E		DC jack)	10 cm of the Main board	(within	מינייות
CS James	Volt	Within 10 cm			DC jack		Main board	0 1	744
1	Voltmeter		₹10.4Ω						A I D III OUR
000 4 000		SIO	4) 1	,	3) 1	-	2)		1)
The state of the s		confirm that the output voltage exceeds 9.7 V.	4) When the resistance is between 5.2 and 10.4 ohms,	Adjust RV2 to set to voltage to 10.4 V.	3) Install a voltmeter within 10 cm from the jack.	load of 10.4 ± 0.1 ohms.	2) Insert the DC cord into a DC jack to connect a	10.5 V.	if operate the charger with an input voltage of
0.000	S = S	out voltage exceed	s between 5.2 and	voltage to 10.4 V	within 10 cm fro	ms.	into a DC jack to		r with an input
		s 9.7 V.	10.4 ohms,		m the jack.		o connect a		AOLISA OL

ack to connect a input voltage of

		ω
	of shut- down voltage	Adjustment Between
ВН-VSE	anode of D20 and GND	Between
'SE	01 Main board	Within 10 cm Voltme
16.2 n		Voltmeter
4) Set a load resistance which allows 2A to flow to the CG jeld. (Approx. £2 Johnsys 2A) 5) Set the input voltage to 9.65 V. 6) Turn RV3 clockwise to adjust the opelloscope waveform to 100 mV. 7) Operate the charger at 12 V and connect C41 to the CG jelds as a load. 8) Gradually decrease the input voltage just before threfore the CF operate the charger at 12 V and connect C41 to the CG jelds as a load.	Turn RV3 fully counterclockwise. Connect an oscilloscope between the anode of D20 and GND.	confirm that the output voltage exceeds 9.7 V. 1) Ground the cathode of D20 on the main board.

THE	voltage
BHANE	GNO O
16.2 22	

Acitaha
GND

			BH-V5E
+	75	\$ 15.2 s	
8) G	th BEE	0 0 7)	W (0

Operate the charger with an input of 12 Adjust the load so the bettery termine 12 V	1) Operate the ch 2) Adjust the load	NB-P5U mode
---	---	-------------

4 Adjustment RV4 of the timer Center lead

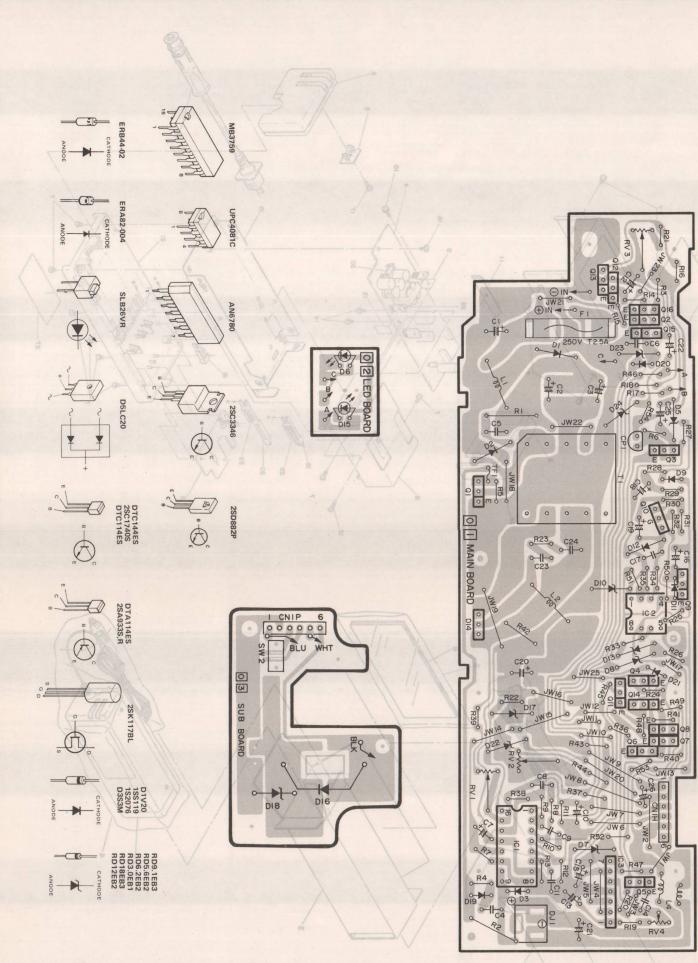
3) Attach a frequency counter between GND and the center lead of RV4 and adjust RV4 so taht the cycle is 439 msec.

VTR	NB-P5U	Mode
Do not press. Do not press	Press.	SW 1
Do not press.	Do not press.	SW 2

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4. SCHEMATIC AND CIRCUIT BOARD DIAGRAMA JASINTSELE 4.1 SCHEMATIC DIAGRAM CAR PLUG DC10.5~16V 020 D23 RD6.2EB2 NA WAA Q2,QI6 DTCI44ES ₹R3 Q15 DTC114YS 2.5A,250V MAIN BOARD C1 C2 330 330 /35 8.2K RI8 & CI2 + 012) C3) 330 /35 CIO 10/16 RI2 22K RI5 D5 RD9. IEB3 NOLTAGE ADJ 0.088/100 R1 2.2K 05 C25 osc ₹R2I D2 ER844-02 2.2K 1/2W IC I MB3759 RD9_IEB1 D3 ERA82 -004 ~000000000000000000000000000000000 D7 RD5.6EB2 R23 - R39 R 17 R37 240K R38 300K 25025A 70 220P 7500 022 7 RD12EB2 OUTPUT CURRENT ADJ D17 RD18 E83+ C20 820 VOLTAGE CIRCUIT TO EACH BLOCK 11/11/2012 O Z LED BOARD *R22 *2.2K VOLTAGE ADJ S. DISMVILLING BROCEDABE AN6780 *R44 R43 R48 PILOT DI5 SLB26V 9 QII,QI4 DTCII4ES 2.2K 25CI740S 021 188119 Q4 DTAII4ES www.freeservicemanuals. 200K 8 620K *R24 R49 240k IS SII 9 OG OO OT ATK NOTES: Unless otherwise specified. 2SC1740S 4. The digital transistor is a transistor that includes Free service ma *R40 All resistance values are in ohms. (1/4 W) All inductance values are in H. Voltage in NB-P5U mode which differs from VTR mode Voltages are DC, measured with Digital Voltage in VTR mode All capacitance values are µF. Shaded () parts are critical for safety. Gratis schema built in resistor. T Mylar capacitor Digitized by Replace only with specified parts. Ceramic capacitor ₹R25 Electrolytic capacitor Q8 DTCI14ES 09 RD 6.2EB2 R 32 8 188119 CIB #R31 110 W 22 C21 C21 820/16 010 DI3 RD3.0EB -DESCRIPTION OF CAR R34 3.9K D12 IS207 R35 3.9K R51 R33 DC OUT O 3 SUB BOARD IC 2 UPC 408 SW2 ON NB-P6U MODE IMS DIB RDIB CHARGE VTR OFF NB-P5U MODE BATTERY +

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BH-3

6. PARTS LIST

A RE	EF.	PART NO.	PART NAME, DESCRIPTION	# A REF. NO.	PART NO.	PART NAME, DESCRIPTION
						S YM S SSE MHICHTON
			PACKING ASSEMBLY [M1]		PQ10325-037	MAIN BOARD ASSEMBLY [01]
					8 400	9A03 - 240 (250 (25) - 240 (25)
A	1		CAR BATTERY CHARGER ASSEMBLY	IC1	MB3759	INTEGRATED CIRCUIT
	2	PU22249-3	PACKING CASE	IC2	UPC4081C	INTEGRATED CIRCUIT
	3	PQ10325-007	PACKING	IC3	AN6780	INTEGRATED CIRCUIT
	4	PQ10325-008	POLY BAG (A), FOR BH-V5E	P. Stranger		AND AND STATE STATE STATE OF THE CO.
	5	PQ10325-009	POLY BAG (B), FOR INSTRUCTION BOOK	△ Q1	2SC3346	TRANSISTOR
	6	PQ10325-027	DC CORD ASS'Y	Q2	DTC144ES	DIGITAL TRANSISTOR
	7	PQ10325-011	POLY BAG (C) FOR DC CORD	△ 03	2SD882P	TRANSISTOR
	8		INSTRUCTION BOOK	Q4	DTA114ES	DIGITAL TRANSISTOR
2:3	0	PU30425-858	INSTRUCTION BOOK	Q5	2SC1740S	TRANSISTOR
				Q6	DTC114ES	DIGITAL TRANSISTOR
				Q7	DTC114ES	DIGITAL TRANSISTOR
	* *			Ø8	DTC114ES	DIGITAL TRANSISTOR
			CAR BATTERY CHARGER ASSEMBLY [M2]	Q9	2SC1740S	TRANSISTOR
			USTUG AV AL KATTERDON - IVA	Q10	2SK117BL	F.E.T
\triangle	1	PU35879-3	TOP COVER	Q11	DTC114ES	DIGITAL TRANSISTOR
	2	PU36023-2	FRONT COVER	Q12	2SA933S,R	TRANSISTOR
\triangle	3	PQ10243-101	REAR PANEL	Q13	2SA933S,R	TRANSISTOR
	4	_	MAIN BOARD ASSEMBLY	Q14	DTC114ES	DIGITAL TRANSISTOR
	5	E 102 m	L.E.D BOARD ASSEMBLY	Q15	DTC144YS	DIGITAL TRANSISTOR
	6	7 - 1000	SUB BOARD ASSEMBLY	Q16	DTC144ES	DIGITAL TRANSISTOR
	7	PU11061-006	SCREW, X2 M3X4	010	DICIALES	DIGITAL THANSISTON
	8	PQ10325-012	HEAT SINK	0.1	D41/20	DIODE
	9	PQ10325-013	SHEET (A), FOR Q3	D1	D1V20	
	10	DPSP3006M	SCREW, M3X6	D2	ERB44-02	DIODE
		DESESSOON	SCHEW, MONO	D3	ERA82-004	DIODE
		DO4000E 044	UOL DED FOR OL D14	D4		
	11	PQ10325-014	HOLDER, FOR Q1, D14	D5	RD9.1EB3	ZENER DIODE, VZ=9.1V
	12	SSSP3012M	SCREW, M3X12	D6		
	13	PQ10325-015	SHEET (B), FOR Q1	D7	RD5.6EB2	ZENER DIODE, VZ=5.6V
	14	SBSP2608M	TAPPING SCREW, M2.6X8	D8	RD6.2EB2	ZENER DIODE, VZ=6.2V
1	15	PQ10325-016	SHIELD CASE	D9	1SS119	DIODE
1	16	DPSP3006M	SCREW, M3X6	D10	RD6.2EB2	ZENER DIODE, VZ=6.2V
1	17	SBSG2606M	TAPPING SCREW, M2.6X8			
1	18	PQ10325-017	SWITCH, SW1	D11	155119	DIODE
1	19	PQ10325-018	SWITCH PIN (A), FOR SW2	D12	152076	DIODE
2	20	PQ10325-019	SWITCH PIN (B), FOR SW1	D13	RD3.0EB1	ZENER DIODE, VZ=3.0V
				D14	D5LC20	DIODE
2	21	PQ10325-020	BATTERY HOLDER ASSEMBLY	D15	DULCZU	DIODE
2	22	PQ10325-036	CAR PLUG CORD		1993	A ROLL TO THE ORD IN A
2	23	(20) A TEMBER W	MAGE C3 1 98 1 1000 HSD0109, 41	D16	Charles de l'oxid	elan Costal transition and a second
	24			D17	RD18EB3	ZENER DIODE, VZ=18V
	25		RATING LABEL	D18	The Walter St	A SAC TORING AND THE ACE
	26	PU58520-3	REAR LABEL	D19	ERA82-004	DIODE
				D20	188119	DIODE
	27	PU35870-1-5	CAUTION LABEL			
	28	PQ10325-025	TUBE, FOR TF1	D21	155119	DIODE
	29	PQ10325-026	SPRING, FOR SWITCH PIN, X2	D22	RD12EB2	ZENER DIODE, VZ=12V
3	30	PQ10325-035	FUSE CLIP, X2	D23	RD6.2EB2	ZENER DIODE, VZ=6.2V
				D24	RD9.1EB1	ZENER DIODE, VZ=9.1V
				C1	PQ10325-114	E CAP, 330/35
				C2	PQ10325-114	
						E CAP, 330/35
				C3	PQ10325-114	E CAP, 330/35
				C4	QFN31HK-104Z	MY CAP, U.1
				C5	PQ10325-103	MY CAP, 0.068/100
				C6	QFN31HK-103Z	MY CAP, 0.01
				C7	PQ10325-104	E CAP, 33/35
				C8	QFN31HK-222Z	MY CAP, 2200P
				C9	QFN31HK-103Z	MY CAP, 0.01
				C10	PQ10325-105	E CAP, 10/16

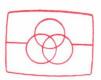
6. PARTS LIST

C11	QFN31HK-682Z	MY CAP, 6800P	R41	QRD141J-472	CR, 4.7K 1/4W
C12	PQ10325-105	E CAP, 10/16	R42	PQ10325-113	UNFLAMMABLE R, 0.05 2W
C13	PQ10325-105	E CAP, 10/16	R43	QRD141J-392	CR, 3.9K 1/4W
C14	QFZ9011-105	PP CAP, 1	R44	QRD141J-472	CR, 4.7K 1/4W
C15	PQ10325-104	E CAP, 33/16	R45	QRD141J-302	CR, 3K 1/4W
C16	PQ10325-104	E CAP, 33/16	R46	QRD141J-222	CR, 2.2K 1/4W
C17	QFN31HK-223Z	MY CAP, 0.022	R47	QRD141J-102	CR, 1K 1/4W
C18	PQ10325-107	E CAP, 100/16	R48	QRD141J-102	CR, 1K 1/4W
C19	PQ10325-108	E CAP, 100/16	R49	QRD141J-244	CR, 240K 1/4 W
C20	PQ10325-109	E CAP, 820/16	R50	QRD141J-105	CR, 1M 1/4W
C21	PQ10325-109	E CAP, 820/16	R51	QRD141J-225	CR, 2.2M 1/4W
C22	PQ10325-112	E CAR 10/16	R52	QRD141J-102	CR, 1K 1/4W
C23	PQ10325-110	0.04B 220B/F00	R53	QRD141J-102	CR, 1K 1/4W
C24	PQ10325-110	C.CAR 220R/E00	R54	QRD141J-332	CR, 3.3K 1/4W
C25	PQ10325-111	E CAR 1/EO	N34	QHD1413-332	CH, 5.5K 1/4W
C26	PQ10325-113	E CAR 120/25	(CARL ALIDAE)		
020	1 410020-110	E CAP, 120/25			VR, OUTPUT CURRENT ADJ. 1KB
			RV1	PQ10325-151	VR, OUTPUT CORRENT ADJ. TKB
R1	PQ10325-131	CR, 2.2 K 1/2 W	RV2	PQ10325-152	
R2	PQ10325-132	CR 47 1/2W	RV3	PQ10325-152	VR, SHUTDOWN ADJ. 2.2KB
R3	QRD141J-153	CR 15K 1/4W	RV4	PQ10325-153	VR, TIMER ADJ. 200KB
R4	QRD141J-680	CR 68 1/4W			
R5	QRD141J-820	CR 82 1/4W	L1		CHOKE COIL, 60µ 3A
R6	PQ10325-134	CR, 1K, 1/2 W	L2	PQ10325-162	CHOKE COIL, 250μ 2.5A
R7	QRD141J-4R7	CR, 4.7 1/4W	L3	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	X PURIOR ODE LISTEY XX
R8	QRD141J-103	CR, 10K 1/4W	L4	PQ10325-163	CHOKE COIL, 100μ 2A
R9	QRD141J-222	NUMBER OF STREET			THE POLOGOS OF SHEET SAME
		CR, 2.2K 1/4W	T1	PQ10325-171	CONVERTER TRANSFORMER
R10	QRD141J-822	CR, 8.2K 1/4W			
D11	VL9-5V.30010 A	DE 100K 1/MW	⚠ TF1		THERMAL FUSE, 115°C 250 V 2A
R11	QRD141J-104	CR, 100K 1/4W			12 SSSPB012M SCREW M3
R12	QRD141J-223	CR, 22K 1/4W	⚠ CP1	ICP-N5	CIRCUIT TROTECTOR, 250 mA
R13	QRD141J-472	CR, 4.7K 1/4W			
R14	QRD141J-103	CR, 10K 1/4W	⚠ F1	PQ10325-034	FUSE 250 V, T2.5A
R15	QRD141J-103	CR, 10K 1/4W			
R16	QRD141J-103	CR, 10K 1/4W	DJ1	PQ10325-173	DC JACK Managaras ST
R17	QRD141J-331	CR, 330 1/4W			-18 PO10325-017 SWITCH, SW
R18	QRD141J-222	CR, 2.2K 1/4W	CN1H	PQ10325-174	CONNECTOR 6P HOUSING
R19	QRD141J-624	CR, 620K 1/4W			
R20	QRD141J-103	CR, 10K 1/4W			
R21	QRD141J-103	CR, 10K 1/4W			
R22	QRD141J-222	CR, 2.2K 1/4W		PQ10325-003	LED BOARD ASSEMBLY [02]
R23	QRD141J-181	CR 180 1/4W			
R24	QRD141J-473	CR 47K 1/4W	D6	SLB26VR	L.E.D
R25	QRD141J-103	CR 10K 1/4W	9		BALBAÍR LOSSESUS BE
R26	QRD141J-472	CR, 4.7K 1/4W	D15	SLB26VR	L.E.D.
R27	QRD141J-102	CR 1K 1/4W			
R28	QRD141J-104	CB 100K 1/4W			
R29	QRD141J-104	CB 100K 1/4W	********		30 PO19325-03E WAUSE CLUP
R30	QRD141J-102	CR, 1K 1/4W		PQ10325-006	SUB BOARD ASSEMBLY [03]
-	000111				
R31	QRD141J-225	CR, 2.2M 1/4W	D16	D3S3M	DIODE
R32	QRD141J-222	CR, 2.2K 1/4W			
R33	QRD141J-102	CR, 1K 1/4W	D18	RD18EB3	ZENER DIOED, VZ=18V
R34	QRD141J-392	CR, 3.9K 1/4W	0.0		
R35	QRD141J-392	CR, 3.9K 1/4W	SW2	PQ10325-175	SWITCH
R36	QRD141J-103	CR, 10K 1/4W	-		
R37	QRD141J-244	CR, 240K 1/4 W	CN1P	PQ10325-176	CONNECTER, 6P BOARD POST
R38	QRD141J-304	CR, 300K 1/4 W	CIVIT	1 (210525-170	CONTROLLIN, OF BOARD FOOT
R39	QRD141J-162	CR, 1.6K 1/4 W			
R40	QRD141J-473	CR, 47K 1/4W			

SERVICE MANUAL

CARRYING CASE

CB-V50U



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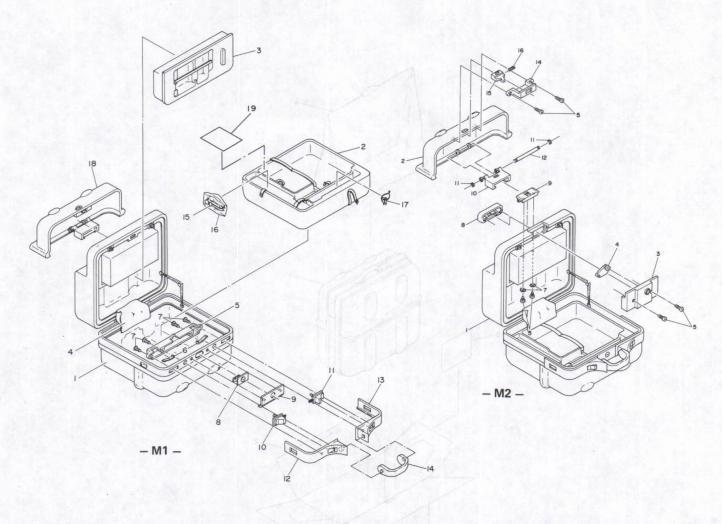
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EXPLODED VIEWS AND PARTS LIST





_	P	Δ	R	т	S	1	121	Γ -

19 PU59493-2

* * * *		
		CARRYING CASE ASSEMBLY [M1]
1	PQ10347-032	CASE ASSEMBLY
2	PQ10347-002	LOWER CUSION ASSEMBLY
3	PQ10347-003	UPPER CUSION ASSEMBLY
4	PQ10347-004	HINGE COVER
5	PQ10347-005	LOCK PLATE CASE
6	PQ10347-006	PLATE SPRING
7	PQ10347-007	SCREW, X 4
8	PQ10347-008	CYLINDER LOCK
9	PQ10347-009	HANDLE PLATE (1)
10	PQ10347-010	LOCK BOTTON ASSEMBLY (2), LEFT SIDE
11	PQ10347-011	LOCK BOTTON ASSEMBLY (1), RIGHT SIDE
12	PQ10347-012	HANDLE PLATE (2), LEFT SIDE
13	PQ10347-013	HANDLE PLATE (3), RIGHT SIDE
14	PQ10347-014	HANDLE
15	PU35752-5	SHOULDER BELT
16	PQ10347-015	POLY BAG FOR SHOULDER BELT
17	PQ10347-016	KEY
18		COVER ASSEMBLY, REFER TO [M2]

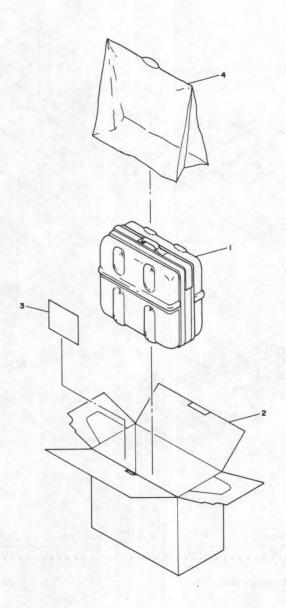
CAUTION SHEET

PART NAME, DESCRIPTION

#A REF.	PART NO.	PART NAME, DESCRIPTION

		CARRYING CASE ASSEMBLY [M2]
1		CASE ASSEMBLY, REFER TO [M1]
2	PQ20346-2	COVERT21 T914
3	PQ10347-017	BOTTOM COVER
4	PQ10347-018	BOTTON LOCK
5	PQ10347-007	SCREW, X 6
6		The same with the same of the
7	PQ10347-021	WASHER
8	PQ10347-022	FRONT LOCK ADAPTOR
9	PQ10347-023	HINGE COVER
10	PQ10347-024	HINNGE HOLDER
11	REE3500	E-RING
12	PQ10347-025	HINGE SHUFT
13	-	A POSTOSAT OSO S POLY BAG
14	PQ10347-027	FRONT LOCK COVER
15	PQ10347-028	FRONT LOCK LEVER
16	PQ10347-029	SPRING

PACKING ASSEMBLY



DARTIET

# 🛆	REF. NO.	PART NO.	PART NAME, DESCRIPTION

CARRYING CASE ASSEMBLY [M3]

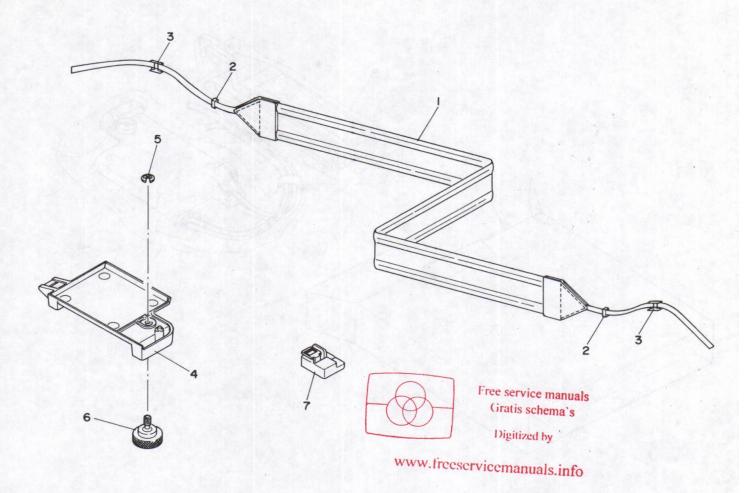
1	_	CARRYING CASE ASSEMBLY [M1], [M2]
2	PU11429-2	PACKING CASE
3	PU36105-2	CAUTION SHEET

SERVICE MANUAL

SHOULDER STRAP



EXPLODED VIEWS AND PARTS LIST



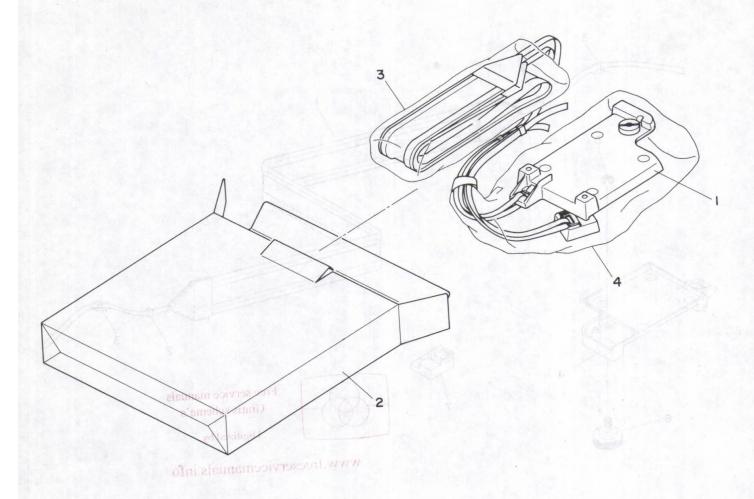
- PART LIST -

#A REF.	PART NO.	PART NAME, DESCRIPTION
		SHOULDER STRAP ASSEMBLY [M1]

1	PQ31394-2	SHOULDER BELT
2	PQ10348-001	BELT HOLDER, X 2
3	PQ10348-002	BELT ADJUSTER, X2
4	PQ10348-003	GONDRA
5	REE4000	E-RING
6	PQ10348-004	CAMERA SCREW
7	PQ10348-007	BUCKLE ASSEMBLY

PACKING ASSEMBLY

EXPLODED VIEWS AND PARTS LIST



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A REF. PART NO. PART NAME, DESCRIPTION

SHOULDER STRAP ASSEMBLY [M2]

1 - SHOULDER STRAP ASSEMBLY, REFER TO [M1]
2 PQ22335-2 PACKING CASE
3 PQ10348-006 POLY BAG, FOR BELT
4 PQ10348-005 POLY BAG, FOR GONDRA

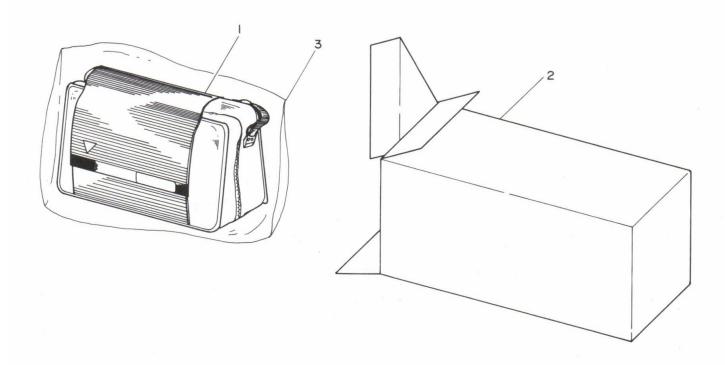
SERVICE MANUAL

CARRYING BAG

CB-V21U



PACKING ASSEMBLY



- PART LIST -

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																		C	A	R	R	Y	IN	IG	В	A	G	A	S	SE	N	IB	L'	Y	[1	11]							

1 - CARRYING BAG ASSEMBLY
2 PU11431 PACKING CASE
3 PQ10346-001 POLY BAG



MODEL GR-C7EG/EK

SECTION 4 DIAGRAMS AND CIRCUIT BOARDS

- MAIN
- · Y/C
- SKEW JUMP
- OVERALL

SECTION 6 ELECTRICAL PARTS LIST

This is an addition to the No. 8458 Service Manual for the model GR-C7 EG/EK.

MAIN BOARD ASSEMBLY REPLACEMENT NOTES

- If replacing an earlier MAIN board assembly (0 1) (PU11348F-1-C) with the later version, disconnect the connector CN1 on the END ALARM board assembly (1 3) (PU22483A-1-C).
- If replacing a later MAIN board assembly (PU11348E-2-C, PU11348E-4-C or PU11348E-5-C) with the earlier version, install an END ALARM board assembly (PU22483A-1-C) and connect the connector CN1 on the END ALARM board assembly from MAIN board assembly.
 - For location of the END ALARM board assembly, refer to "page 5-2" of the provided in GR-C7EG/EK Service manual (No. 8458).

SECTION 6 PARTS LIST

# \Lambda	REF.	NO.	PART NO.	PART NAME, DESCRIPTION
			PU11348F-1-C	MAIN BOARD ASS'Y [01]
	- RE	GUL.	ATOR SECTION -	
Δ	IC1		S-81250AG	INTEGRATED CIRCUIT
	Q1			CHIP DIGITAL TRANSISTOR
	Q2			CHIP DIGITAL TRANSISTOR CHIP DIGITAL TRANSISTOR
	42			CHIP DIGITAL TRANSISTOR
	03	011		CHIP TRANSISTOR
	04			CHIP TRANSISTOR
	D1			DIODE
	02		RD3.9M-T18	CHIP ZENER DIODE
	03			CHIP ZENER DIODE
	04		MA151WK	CHIP DIODE
	05	OH		CHIP DIODE
	D5	00	MA151WK DAN202K	CHIP DIODE
		Un	DANZUZK	CAIP DIODE
	81		QRD167J-683	CR
	R2		QRSA08J-684YN	CHIP R
	R3		QRSA08J-100YN	CHIP R
	R4		QRSA08J-121YN	CHIP R
	R5		QRSA08J-271YN	CHIP R
	R6		QRSA08J-102YN	CHIP R
	87		QRSA08J-102YN	CHIP R
	R8		QRSA08J-125YN	CHIP R
	C1			HD WAST STORY BY
	C2		QEK41CM-476	E CAP
	C3		QEK41CM-476	E CAP
	C4		QED41CM-476	E CAP
	C5		QED41CM-476	E CAP
	C6		QED41AM-826	ECAP
	C7		QED41AM-826	ECAP
	C8		QEMA1AM-107	E CAP
Α	RY1		PU56400-2	RELAY
2.2			1030400-2	RELAT
	JACK	1	PU57179	DC JACK

LI	ST		
# 🛆	REF. NO.	PART NO.	PART NAME, DESCRIPTION
Δ	F1	QMF51E2-3R15	FUSE
			(NOT INCL. IN MAIN BOARD ASS'Y)
Δ	FC1	PU57505	FUSE CLIP, FOR F1, X2
A	CP1	ICP-F15	CIRCUIT PROTECTOR
	CP2	ICP-F20	CIRCUIT PROTECTOR
	СРЗ	ICP-F20	CIRCUIT PROTECTOR
1	CP4	ICP-F15	CIRCUIT PROTECTOR
Δ	CP5	ICP-F20	CIRCUIT PROTECTOR
	TP	PU56278 Free serv	TEST PIN, TP1, 2
-	TOT	rree serv	ice manuals
(JI	Gratis	schema's
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			CONVERTER
	www.fr	ceserviceman	uals info VOL. DET BOARD ASS'Y (INCLUDED IN MAIN BOARD ASS'Y)
		- ceman	uals.info
		THE CHIRAL STATE	(INCLUDED IN MAIN BOARD ASS'Y)
	IC2	NJM2904E	INTEGRATED CIRCUIT
	Q5	DTC143XK	CHIP DIGITAL TRANSISTOR
	Q6	DTC143XK	CHIP DIGITAL TRANSISTOR
		OF THE BUANT	HIDE CONTROL TO SEE
	R10	QRSA08J-104YN	CHIP R
	R11	QRSA08J-104YN	CHIP R
	R12	QRSA08J-104YN	CHIP R
	R13	QRSA08J-104YN	CHIPR
	81	QRSA08J-0R0Y	CHIP R
	82	QRSA08J-OROY	CHIP R
	B3	QRSA08J-0R0Y	CHIP R
	84	QRSA08J-0R0Y	CHIP R
	C10	QCYA1HK-103	CHIP CAP
	C11	QCYA1HK-103	CHIP CAP
	- SERVO	SECTION -	
	IC101	BA8526K	FLATIC
		BA8527K	FLATIC
	IC102	BAF6305	FLATIC STATE OF THE STATE OF TH
	IC103	PU22441A-2-C	F/V MOD. (JC001)
	IC104	M51797FP	FLAT IC
	IC104	M50252FP	FLATIC
	IC105	M51722FP	FLATIC
	IC107	M54643L	INTEGRATED CIRCUIT
	IC108	AFC74A001X1	INTEGRATED CIRCUIT
	IC109	M5223FP	FLATIC
	10109	WIDZZSFF	120110

OR UPC1251G

FLATIC

REF.NO.	PART NO.	PART NAME, DESCRIPTION	# 🛆	REF. NO.	PART NO.	PART NAME, DESCRIPTION
Q101	2SK621	CHIP DIGITAL FET		R105	PU59237-224	CHIP VR, PB SW POINT
Q102					PU57816-2-224	CHIP VR
0103					QVZ3606-224	CHIP VR
0104	2SD601	CHIP TRANSISTOR	1000		PU59456-224	CHIP VR
	2SC2412K	CHIP TRANSISTOR	13000	R106	QRSA08J-563YN	CHIP R
				R107	QH3A083-303114	Critic N
Q105	2SB709			N107		
	2SA1037K	CHIP TRANSISTOR	1.5	R108	QRSA08J-104YN	CHIP R
Q106	2SB709	CHIP TRANSISTOR	1435	R109	PU59237-683	CHIP VR, REC SW POINT
OR	2SA1037K	CHIP TRANSISTOR		OF	R PU57816-2-683	CHIP VR
Q107	2SD601	CHIP TRANSISTOR		OF	R PU59456-683	CHIP VR
OR	2SC2412K	CHIP TRANSISTOR		R110	QRSA08J-104YN	CHIP R
Q108	Not be to service	60061948D)	1			
Q109	CUIT TROTESTON	FIG. 1. Compared to the Lag. A. S.	1	D111	PU59237-104	CHIP VR, LP CTL DELAY
	200700	CILID TO ANGUSTOD		R111		
Q110	2SB709	CHIP TRANSISTOR	100		R PU57816-2-104	CHIPVR
OR	2SA1037K	CHIP TRANSISTOR	1	OF	R PU59456-104	CHIP VR
			100.1	R112	QRSA08J-104YN	CHIP R
Q111	2SK621	CHIP DIGITAL FET		R113	PU59237-104	CHIP VR, SP CTL DELAY
Q112	2SK621	CHIP DIGITAL FET	1	- OF	PU57816-2-104	CHIP VR
Q113	2SK621	CHIP DIGITAL FET	1	OF	R PU59456-104	CHIP VR
Q114	2 10 1,86			R114	QRSA08J-823YN	CHIP R
	2SA1365-T1G	CHIRTRANSISTOR			2110/1000-02011V	
Q115	to finance	CHIP TRANSISTOR	1000	R115	-	OLUB D
	2SB710S 2 511	CHIP TRANSISTOR		R116	QRSA08J-184YN	CHIPR
	2SA1036K(R)	CHIP TRANSISTOR	000	R117	QRSA08J-105YN	CHIPR
OR	2SB624-T1BBV5	CHIP TRANSISTOR	18 6	R118	- 1	NOTE THE LOCALIST OF LOCAL
Q116	2SA1365-T1G	CHIP TRANSISTOR		R119	or identification	15 - 111 320A July
OR	2SA1036K(R)	CHIP TRANSISTOR	1811	R120	QRSA08J473YN	CHIP R
OR	2SB624-T1BBV5	CHIP TRANSISTOR				
	2SB710S	CHIP TRANSISTOR	1	R121	QRSA08F-224YN	CHIR B
Q117	2SA1365-T2G	CHIP TRANSISTOR	1			CHIP R
	2SA1036K(R)	CHIP TRANSISTOR		R122	QRSA08F-153YN	CHIPR
			1000	R123	QRSA08J-104YN	CHIP R
	2SB624-T2BBV5	CHIP TRANSISTOR		R124	QRSA08J-334YN	CHIP R
OR	2SB710S	CHIP TRANSISTOR	17.39	R125	ORSA08J-102YN	CHIP R
Q118	2SA1365-T2G	CHIP TRANSISTOR		R126	-	
OR	2SA1036K(R)	CHIP TRANSISTOR		R127	_	
OR	2SB624-T2BBV5	CHIP TRANSISTOR	100	R128	QRSA08J-561YN	CHIP R
	2SB710S	CHIP TRANSISTOR		R129	QRSA08J-105YN	CHIP B
		HALL INTEGRAL STARROW IN SAME THE	The state of the s			
Q119	2SK621	CHIP DIGITAL FET		R130	QRSA08J-104YN	CHIPR
Q120	2SK621	CHIP DIGITAL FET	0			PO METERSON CONTRACTOR
				R131	QRSA08J-221YN	CHIP R
Q121	2SB709	CHIP TRANSISTOR		R132	QRSA08J-102YN	CHIP R
OR	2SA1037K	CHIP TRANSISTOR		R133	QRSA08J-105YN	CHIP R
Q122	2SD601	CHIP TRANSISTOR		R134	QRSA08J-223YN	CHIP R
	2SC2412K	CHIP TRANSISTOR	1	R135	QRSA08J-102YN	CHIPR
O.A.		· · · · · · · · · · · · · · · · · · ·				
		PPD CORO ISOARRO CO		R136	QRSA08J-103YN	CHIP R
			10	R137	QRSA08J-103YN	CHIP R
Q128	2SC2412K	CHIP TRANSISTOR		R138		The second control of the second
OR	2SD601	CHIP TRANSISTOR		R139		3 3 4 E avalentaria
Q129	2SK621	CHIP DIGITAL FET		R140	-	DO THE STATE OF STATE OF THE ST
						DE TAMENDAD
		The state of the s		R141		
				R142 ·		D TO THE PROPERTY OF THE PARTY
						D S T BESMATROSL
				R143	All The Shift to	og Tormaganio 10
		The state of the s		R144	-	
D101	DA204K	CHIP DIODE	1	R145		
D102	- 15 Col 14	LIR - XBC BAR LINED DOT		R146.	-	
D103		THE HE HE HAD BEEN AND THE STATE OF THE STAT	No.	R147		CAN CARCAGO TYPES
D104	DAP202K	CHIP DIODE	1	R148	-	
		Will the same of t	1 4 1	R149	QRSA08J-105YN	CHIPR
				R150	QRSA08J-224YN	CHIP R
			1		Se at	SACKT A POST TO
					ODCADOLCOSVAL	CHIP R
R101	ORSA08J-103YN	CHIP R		R151	QRSA08J-683YN	CHIFN
R101 R102		CHIP R CHIP R CHIP R		R151	QRSA08J-223YN	CHIPR
R102		0.110 6				
		0.110 6		R152		

REF. NO	PART NO.	PART NAME, DESCRIPTION	# 🛆	HEF. NO.	PART NO.	PART NAME, DESCRIPTION	
R156		La		R213	QRSA08J-104YN	CHIPR	
R157	QRSA08J-103YN	CHIPR		R214	QRSA08J-472YN	CHIPR	
R158	QRSA08J-105YN	CHIPR		R215		чары - зогисемно	
R159	QRSA08J-224YN	CHIP R		R216	QRSA08J-OROY	CHIPR BOLACOTABLES	
R160	QRSA08J-473YN	CHIP R		R217		_	
1100	QH3A003473114			R218	PU59237-103	CHIP VR, DRUM PULSE	
		CUID D	-		PU57816-2-103	CHIP VR	
R161	QRSA08J-393YN	CHIP R			PU59456-103	CHIPVR	
R162	QRSA08J-105YN	CHIP R			F059456-105	SAD B _ BY EMILDERING	
R163	QRSA08J-154YN	CHIP R		R219		Pales _ Strikeraybox	
R164	QRSA08J-334YN	CHIPR		R220		POTESTANDO	
R165	QRSA08J-184YN	CHIP R					
R166	QRSA08J-334YN	CHIP R		R221			
R167	QRSA08J-104YN	CHIP R		R222	-		
R168	QRSA08J-563YN	CHIP R		R223	QRSA08J-223YN	CHIPR	
R169	QRSA08J-104YN	CHIP R		R224	-		
R170	QRSA08J-474YN	CHIPR		R225	-	-	
	orales (svoj pas ine			R226	QRSA08J-332YN	CHIP R	
R1-71	F PHIATON	940 to 1 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	E Pend	R227	QRSA08J-332YN	CHIPR	
R172	OF STORE THE AMOISTO	manes a_resist segments not the		R228	QRSA08J-332YN	CHIPR	
R173	DIERWONT HAR BE	THE THE PROPERTY OF THE PROPER		R229	QRSA08J-332YN	CHIP R	
R174	QRSA08J-182YN	CHIP R					
R175	QRSA08J-221YN	CHIP R	9 - 3				
R176	QRSA08J-221YN	CHIP R	A LYS	R235	QRSA08J-273YN	CHIP R	
R177	QR\$A08J-472YN	CHIP B		R236	QRSA08J-123YN	CHIP R	
R178	QRSA08J-183YN	CHIP R		R237	QRSA08J-102YN	CHIP R	
R179		CHIPR	1.	R238	QRSA08J-103YN	CHIPR	
	QRSA08J-333YN.			N230	QH3A003-103 FN	CHIFR	
R180	QRSA08J-183YN	CHIPR					
	0.0010010001						
R181	QRSA08J-223YN	CHIPR	-				
R182	QVZ3606-333	CHIP VR, TRACKING PRESET	Sally F	TH101	ERT-D2FIK-154S	THERMISTOR	
R183	QRSA08J-102YN	CHIPR		111101	LITT-021 110-1545		
R184	QRSA08J-102YN	CHIPR					
R185	PU56399-4	VR, TRACKING VR, 500 K	Sec.				
R186	OTSIL PRI DATE	DAUKOK- SAIDUU PO MAN		2101	00040010004	MACIE DE BOLM NINESO	
R187	PU59237-333	CHIP VR, CAP. SAMPLING		B101	QRSA08J-0R0Y	CHIP R	
0	PU57816-2-333	CHIP VR		8102		ACISM. TO DECISION	
OI	R PU59456-333	CHIPVR		B103		AUGUSTON STORY	
R188	QRSA08J-153YN	CHIPR		B104	QRSA08J-0RQY	CHIP R	
R189	QRSA08J-822YN	CHIP R		B105	QRD161J-0R0	CR	
R190	QRSA08J-333YN	CHIP R		B106	-	SADE TO SOMETHING	
				B107	-	-	
R191		A NAO - WEST BOOK OF COURT		B108	QRSA08J-0R0Y	CHIPR	
R192	QRSA08J-102YN	CHIP R		B109		SAD I SEE MAINTEN O	3810
R193	QRSA08J-473YN	CHIP R		B110	QRSA08J-0R0Y	CHIP R	
R194	ORSA08J-105YN		-4-5			THE THE PARTY OF T	
R195	QRSA08J-105YN	O	1 10				
R196	QRSA08J-103YN				1. 16		
R197	QRSA08J-223YN			C101.	QCYA1HK-103	CHIP CAP	9813
R198	QRSA08J-822YN	CHIP R		C102	QCYA1HK-103	CHIP CAP	Spara
R199	QRSA08J-103YN	CHIP R		C103	QER41EM-475	E CAP	
R200	QRSA08J-103YN	CHIP R		C104	QFJ41HJ-153	MY CAP	
		A THEO WAS BALBOARTON STREET		C105	QER41EM-475	E CAP	
R201	QRSA08J-103YN	CHIP R		C106	QCSA1HJ-391	CHIP CAP	
R202	QRSA08K-4R7YN	CHIP R		C107	QFJ41HJ-273	MY CAP	
R203	QRSA08K-4R7YN	CHIP R			The state of the s	MP CAP	
R204	QRSA08J-181YN	CHIP R	8	C108	QFZ9011-224	PP CAP	
R205	QRSA08J-181YN	CHIP R		C109	PU60038-333		
R206	QRSA08K-4R7YN	CHIP R MYSTALDOAZHO ALCH		C110	QFZ9011-124	MP CAP	
R207	QRSA08K-4R7YN	CHIP R			MANUAL PROPERTY OF	COPATEZ 104 C CHIP C	
R208	QRSA08J-102YN	CHIP R A STATE OF THE STATE OF	. 3	C111	QEE81 AM-226	T CAP	
R209	_	RADIA CORSKORNOS EN LA CHIER		C112	QFJ41HJ-683	MY CAP	
R210	QRSA08J-103YN	CHIP R YORK MAN TO SEE A		C113	QFZ9011-104	MP CAP	
	G. 10. 1000 100 114	4 3 HD - NO HIS 1304 BRO. 1458		C114	QFJ41HJ-223	MY CAP	
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R211				C115	QCDA1EM-333	CHIP CAP	

C122	C119 OCSATHJEST CHIP CAP C120 OCERATINA-105 E CAP C121 OCSATHJEST CHIP CAP C122 OCERATINA-105 E CAP C123 OCYATINA-103 CHIP CAP C124 OCRAMINA-105 E CAP C125 OCYATINA-103 CHIP CAP C126 OCYATINA-102 CHIP CAP C127 OCYATINA-102 CHIP CAP C128 OCYATINA-102 CHIP CAP C129 OCYATINA-102 CHIP CAP C120 OCYATINA-103 CHIP CAP C121 OCCATINA-103 CHIP CAP C121 OCCATINA-103 CHIP CAP C122 OCCATINA-103 CHIP CAP C123 OCYATINA-103 CHIP CAP C124 OCCATINA-103 CHIP CAP C124 OCCATINA-103 CHIP CAP C125 OCYATINA-103 CHIP CAP C126 OCCATINA-103 CHIP CAP C127 OCCATINA-103 CHIP CAP C128 OCCATINA-103 CHIP CAP C129	REF.NO.	PART NO.	PART NAME, DESCRIPTION	# 🕰	MEF.		PART NO.	PART NAME, DESCRIPTION	
C130 OERAUJA-107 E CAP C130 OERAUJA-107 E CAP C131 OCSA1HJ-221 CHIP CAP C122 OCERAITHA-105 E CAP C123 OCSA1HJ-221 CHIP CAP C124 OERAUJA-16 E CAP C125 OCSA1HS-102 CHIP CAP C126 OCSA1HS-102 CHIP CAP C127 OERAUJA-16 E CAP C128 OCSA1HS-102 CHIP CAP C129 OCSA1HS-102 CHIP CAP C129 OCSA1HS-102 CHIP CAP C120 OCSA1HS-102 CHIP CAP C127 OERAUJA-16 E CAP C128 OCSA1HS-102 CHIP CAP C129 OCSA1HS-102 CHIP CAP C129 OCSA1HS-102 CHIP CAP C129 OCSA1HS-102 CHIP CAP C120 OCSA1HS-102 CHIP CAP C127 OERAUJA-16 E CAP C128 OCSA1HS-102 CHIP CAP C129 OCSA1HS-102 CHIP CAP C130 OCSA1HS-102 CHIP CHIP CAP C130 OCSA1HS-102 CHIP CONTACT TRANSISTOR C130 OCSA1HS-102 CHIP CONTACT TRANSISTOR C130 OCSA1HS-102 CHIP CONTACT TRANSISTOR C131 OCSA1HS-102 CHIP CONTACT TRANSISTOR C132 OCSA1HS-102 CHIP CONTACT TRANSISTOR C133 OCSA1HS-102 CHIP CONTACT TRANSISTOR C134 OCSA1HS-102 CHIP CONTACT TRANSISTOR C136 OCSA1HS-103 CHIP CONTACT TRANSISTOR C137 OCSA1HS-103 CHIP CONTACT TRANSISTOR C138 OCSA1HS-103 CHIP CONTACT TRANSISTOR C139 OF CONSS-104 MP CAP C130 OF CONSS-104 MP CAP C131 OF CONSS-104 MP CAP C132 OF CONSS-104 MP CAP C132 OF CONSS-104 MP CAP C134 OF CONSS-104 MP CAP C135 OF CONSS-104 MP CAP C136 OF CONSS-104 MP CAP C137 OF CONSS-104 MP CAP C138 OF CONSS-104 MP CAP C139 OF CONSS-104 MP CAP C130 OF CONSS-104 MP CAP C130 OF CONSS-104 MP CAP C130 OF CONSS-104 MP CAP C131 OF CONSS-104 MP CAP C132 OF CONSS-104 MP CAP C132 OF CONSS-104 MP CAP C134 OF CONSS-104 MP CAP C135 OF CONSS-104 MP CAP C136 OF CONSS-104 MP CAP C136 OF CONSS-104 MP CAP C137 OF CONSS-104 MP CAP C138 OF CONSS-104 MP CAP C139 OF CONSS-104 MP CAP C130 OF CONSS-104 MP CAP C130	C130 CERROLANIOT E CAP C1301 ANS991NS FLAT IC	C117	QCYA1HK-102	CHIP CAP		- AUI	010	SECTION -		
C130	C120	C118	QCSA1HJ-681	CHIP CAP						
C120	C121	C119	QER40JM-107	E CAP		10301		AN3991NS	FLATIC	
C121	C121									
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C124	C124	C122	QER41HM-105	ECAP						
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C126	C126 C0741HK-102 CHIP CAP OR DT144EK CHIP DIGITAL TRANSISTOR C127 OERAO_M-476 E CAP OR 262335 CHIP DIGITAL TRANSISTOR C128 C129 C1	C124	QER40JM-476	E CAP				25K621	CHIP DIGITAL FET	
C132	C126 QCF-A1EZ-104 CHIP CAP	C125	QCYA1HK-102	CHIP CAP		4302	OB			
C128	C128	C126	QCFA1EZ-104	CHIP CAP	A STATE					
C128	C128	C127	QER40JM-476	E CAP		0303	On			
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C136	C138			BALAN SELECTION SELECTION OF SELECTION			OR	2SC3395	CHIP DIGITAL TRANSISTOR	
C137 QEL41EM475E	C137 QEL41EM475E		05146511			0306		2SK621	CHIP DIGITAL FET	
C138	C138						OR	DTC144EK	CHIP DIGITAL TRANSISTOR	
C139	C139		QEL41EM-475E	E CAP	THE ST		OR	2SC3395	CHIP DIGITAL TRANSISTOR	
C140	C140	C138		SAME THAT PROPERTY IN THE		0307		2SD601	CHIP TRANSISTOR	
CTAL DELATION-106E E CAP C142 OELATION-106E E CAP C143 OFZ9011-334 MP CAP C144 OCFA1EZ-104 CHIP CAP C145 OERAUM-176 E CAP C146 OERAUM-176 E CAP C147 OERAUM-176 E CAP C148 OERAUM-176 E CAP C149 OFZ095-104 MP CAP C150 OFZ095-104 MP CAP C150 OFZ095-104 MP CAP C151 OERAUM-105 E CAP C152 OFX	C141 OEL41CM-106E E CAP C142 OEL41CM-106E E CAP C143 QF29011-334 MP CAP C144 QCFA1EZ-104 CHIP CAP C146 QER41CM-106 E CAP C147 QEA1EX-104 CHIP CAP C148 QF3011-334 MP CAP C149 QF3011-334 MP CAP C150 QF3011-334 MP CAP C151 QF3011-334 MP CAP C151 QF3011-334 MP CAP C152 — HAND CAP C153 QCYA11K-102 CHIP CAP C154 QF3011-331 CHIP CAP C155 QCSA11H-331 CHIP CAP C156 QCSA11H-301 CHIP CAP C157 QCFA1EZ-104 CHIP CAP C158 QCFA1EZ-104 CHIP CAP C159 QF3081-331 CHIP CAP C160 — — — — — — — — — — — — — — — — — — —	C139	QFZ0095-104	MP CAP		0308		2SD601	CHIP TRANSISTOR	
C141	C141	C140	-	E WIND - WY FOR GROWN BY A STEEL		0309		2SB709	CHIP TRANSISTOR	
C142 QEL41CM-106E E CAP Q111 25K621 CHIP DIGITAL FET	C142 OEL41CM-106E E CAP					Q310		DTA124EK	CHIP DIGITAL TRANSISTOR	
C142 QEL41CM-106E E CAP Q111 25K621 CHIP DIGITAL FET	C142 OEL41CM-106E E CAP	C141	QEL41CM-106E	E CAP			OR	UN2112	CHIP DIGITAL TRANSISTOR	
C143	C143	1. 12 1/12								
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C153	C153	C151	QER41HM-105	E CAP		R301		QRSA08J-220YN	CHIP R	
C154 QER41HM-225 E CAP C155 QCSA1HJ-331 CHIP CAP C156 QCSA1HJ-331 CHIP CAP C157 QCFA1EZ-104 CHIP CAP C158 QCFA1EZ-104 CHIP CAP C159 QEPAICM-106 NP CAP C160 — — — — — — — — — — — — — — — — — — —	C154 QER41HM-225 E CAP R304 QRSA08J-223YN CHIP R C155 QCSA1HJ-331 CHIP CAP R305 QRSA08J-223YN CHIP R C156 QCSA1HJ-101 CHIP CAP R306 QRSA08J-223YN CHIP R C157 QCFA1EZ-104 CHIP CAP R307 QRSA08J-822YN CHIP R C158 QCFA1EZ-104 CHIP CAP R308 QRSA08J-822YN CHIP R C159 QEPA1CM-106 NP CAP R309 QRSA08J-0R0Y CHIP R C160 — — R310 QRSA08J-0R0Y CHIP R C161 QCYA1HK-102 CHIP CAP R311 QRSA08J-122YN CHIP R C162 — — R312 QRSA08J-561YN CHIP R C163 QCYA1HK-332 CHIP CAP R313 QRSA08J-181YN CHIP R C164 QCYA1EK-223 CHIP CAP R314 PU59237-103 CHIP VR, AUDIO REC LEVEL C165 QCYA1EK-223 CHIP CAP R315 QRSA08J-682YN CHIP R C166 QCYA1EK-223 CHIP CAP R315 QRSA08J-682YN CHIP R C167 QCYA1HK-102 CHIP CAP R315 QRSA08J-682YN CHIP R C168 QCSA1HJ-151 CHIP CAP R316 QRSA08J-392YN CHIP R C169 QCFA1EZ-104 CHIP CAP R317 QRSA08J-392YN CHIP R R319 QRSA08J-322YN CHIP R R319 QRSA08J-222YN CHIP R	C152	-			R302		QRSA08J-103YN	CHIP R	
C155 QCSA1HJ-331 CHIP CAP C156 QCSA1HJ-101 CHIP CAP C157 QCFA1EZ-104 CHIP CAP C158 QCFA1EZ-104 CHIP CAP C159 QEPA1CM-106 NP CAP C160 — — — — — — — — — — — — — — — — — — —	C155 QCSA1HJ-331 CHIP CAP C156 QCSA1HJ-101 CHIP CAP C157 QCFA1EZ-104 CHIP CAP C158 QCFA1EZ-104 CHIP CAP C159 QEPA1CM-106 NP CAP C160 — — — — — — — — — — — — — — — — — — —	C153	QCYA1HK-102	CHIP CAP		R303		QRSA08J-153YN	CHIP R	
C156 QCSA1HJ-101 CHIP CAP C157 QCFA1EZ-104 CHIP CAP C158 QCFA1EZ-104 CHIP CAP C159 QEPA1CM-106 NP CAP C160 — — — — — — — — — — — — — — — — — — —	C156 QCSA1HJ-101 CHIP CAP C157 QCFA1EZ-104 CHIP CAP C158 QCFA1EZ-104 CHIP CAP C158 QCFA1EZ-104 CHIP CAP C159 QEPA1CM-106 NP CAP C160 — — — — — — — — — — — — — — — — — — —	C154	QER41HM-225	E CAP	1 100	R304		QRSA08J-223YN	CHIP R	
C157	C157 QCFA1EZ-104 CHIP CAP C158 QCFA1EZ-104 CHIP CAP C159 QEPA1CM-106 NP CAP C160 — — — R309 QRSA08J-0R0Y CHIP R C160 — — — R310 QRSA08J-0R0Y CHIP R C161 QCYA1HK-102 CHIP CAP C162 — — — R311 QRSA08J-122YN CHIP R C163 QCYA1HK-332 CHIP CAP C164 QCYA1EK-223 CHIP CAP C165 QCYA1EK-223 CHIP CAP C166 QCYA1EK-223 CHIP CAP C167 QCYA1HK-102 CHIP CAP C168 QCYA1HK-102 CHIP CAP C169 QCYA1EK-210 CHIP CAP C169 QCYA1EX-221 CHIP CAP C168 QCSA1HJ-151 CHIP CAP C169 QCFA1EZ-104 CHIP CAP C169 CAPACA CHIP	C155	QCSA1HJ-331	CHIP CAP	A Hare	R305		QRSA08J-223YN	CHIP R	
C158	C158	C156	QCSA1HJ-101	CHIP CAP		R306		QRSA08J-121YN	CHIP R	
C158	C158	C157	QCFA1EZ-104	CHIP CAP	1000	R307		QRSA08J-822YN	CHIP R	
C159	C159	C158	QCFA1EZ-104	CHIP CAP		R308		QRSA08J-103YN	CHIP R	
C160 — — — — — — — — — — — — — — — — — — —	C161	C159	QEPA1CM-106			R309		QRSA08J-0R0Y	CHIP R	
C161	C161			BANKS TO SULKULANDE HE TURK						
C161 QCYA1HK-102 CHIP CAP C162 — — — — — — — — — — — — — — — — — — —	C161 QCYA1HK-102 CHIP CAP C162 — — — — — — — — — — — — — — — — — — —									
C162 — — — — — — — — — — — — — — — — — — —	C162 — — — — — — — — — — — — — — — — — — —	C161	QCYA1HK-102	CHIP CAP	11 300	R311		QRSA08J-122YN	CHIP R	
C163	C163			AN YOUNG CHEER STATE OF THE PARTY OF THE PAR						
C164 QCYA1EK-223 CHIP CAP C165 QCYA1EK-223 CHIP CAP C166 QCYA1EK-223 CHIP CAP C167 QCYA1HK-102 CHIP CAP C168 QCSA1HJ-151 CHIP CAP C169 QCFA1EZ-104 CHIP CAP C170 QCFA1EZ-104 CHIP CAP C180 QCFA1EZ-105 CHIP CAP C180 QCFA1EZ-105 CHIP CAP C180 QCFA1EZ-103 CHIP VR C180 QCFA1EZ-10	C164 QCYA1EK-223 CHIP CAP C165 QCYA1EK-223 CHIP CAP C166 QCYA1EK-223 CHIP CAP C167 QCYA1HK-102 CHIP CAP C168 QCSA1HJ-151 CHIP CAP C169 QCFA1EZ-104 C			CHIP CAP	of the s					
C165 QCYA1EK-223 CHIP CAP C166 QCYA1EK-223 CHIP CAP C167 QCYA1HK-102 CHIP CAP C168 QCSA1HJ-151 CHIP CAP C169 QCFA1EZ-104 CHIP CAP C169 QCFA1EZ-104 CHIP CAP C160 QCFA1EZ-103 CHIP VR C160 QCFA1EX-103 CHIP VR CHIP CAP C160 QCFA1EX-103 CHIP VR C160 QCFA1EX-103 CHIP VR CHIP CAP C160 QCFA1EX-103 CHIP VR C160 QCFA1EX-103 CHIP VR CHIP CAP C160 QCFA1EX-103 CHIP VR CHIP CAP C160 QCFA1EX-103 CHIP VR CHIP CAP C160 QCFA1EX-103 CHIP VR C160 QCFA1EX-103 CHIP VR C160 QCFA1EX-103 CHIP VR CHIP VR C160 QCFA1EX-103 CHIP VR CHIP VR CHIP VR CHIP VR CHIP VR C160 QCFA1EX-103 CHIP VR CHIP VR	C165 QCYA1EK-223 CHIP CAP C166 QCYA1EK-223 CHIP CAP C167 QCYA1HK-102 CHIP CAP C168 QCSA1HJ-151 CHIP CAP C169 QCFA1EZ-104 CHIP CAP C170 QCFA1EZ-104 CHIP									
C166 QCYA1EK-223 CHIP CAP C167 QCYA1HK-102 CHIP CAP C168 QCSA1HJ-151 CHIP CAP C169 QCFA1EZ-104 CHIP CAP C169 QCFA1EZ-104 CHIP CAP C169 R316 QRSA08J-472YN CHIP R R317 QRSA08J-392YN CHIP R R318 QRSA08J-103YN CHIP R R319 QRSA08J-103YN CHIP R R319 QRSA08J-222YN CHIP R R319 QRSA08J-222YN CHIP R R320 QRSA08J-0R0Y CHIP R	C166 QCYA1EK-223 CHIP CAP C167 QCYA1HK-102 CHIP CAP C168 QCSA1HJ-151 CHIP CAP C169 QCFA1EZ-104 CHIP CAP R316 QRSA08J-472YN CHIP R R317 QRSA08J-392YN CHIP R R318 QRSA08J-103YN CHIP R R319 QRSA08J-222YN CHIP R						OR		OLUM LIE	
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R322	PU59237-222	CHIP VR, AUDIO PB LEVEL		C321	aaliin	
OR	PU57816-2-222	CHIP V-R		C322	- 29 JATTOU	
OR	PU59456-222	CHIP VR		C323	QER41HM-104	E CAP
R323	QRSA08J-392YN	CHIPR		C324	715 - 715 80 k-14	Tieso - deeded - fr
R324	QRSA08J-124YN	CHIPR		C325	QER41HM-225	E CAP
R325	QRSA08J-221YN	CHIPR		C326	QER40JM-226	E CAP
R326	QRSA08J-103YN	CHIP B		C327	QER41HM-225	E CAP
R327	QRSA08J-273YN	CHIP R		C328	QER40JM-226	E CAP
	QRSA08J-102YN	CHIP R		C329	QCSA1HJ-471	CHIP CAP
R328				C330	QCSA1HJ-471	CHIP CAP
R329	QRSA08J-222YN	CHIP R		0330	20051113-4/1	
R330		THE PERSON NAMED ASSOCIATION OF THE PERSON NAMED ASSOCIATION O		0224	OEB41444 222	5.040
				C331	QER41AM-336	E CAP
R331		SHIP TO POST HOW THO		C332	QFZ9011-823	MP CAP
R332	-	TIPHO TO YE GIVE BOTH HID TO		C333	QCSA1HJ-471	CHIP CAP
R333	QRSA08J-105YN	CHIPR		C334	QCYA1HK-822	CHIP CAP
R334	QRSA08J-103YN	CHIP R		C335	10 HODIO 80 HB	STIPLE - SECTIMENTAL BOTT
R335	QRSA08J-560YN	CHIP R		C336	QER41HM-224	E CAP
R336	QRSA08J-103YN	CHIP R				
R337	QRSA08J-102YN	CHIPR				
R338	QRSA08J-392YN	CHIP R				
R339	QRSA08J-102YN	CHIP R		L301	PU56197-2	CHIP EQUALIZER
R340	QRSA08J-823YN	CHIP R		L302	PU58610	CHIP TRAP COIL
	2110/1000/020114			L303	PU/55843-331K	CHIP COIL .
Part	OBSAGRITORYN	CHIRR		△ L304	PU58611	OSC COIL
R341	QRSA08J-103YN	CHIP R		L305	PU55843-101K	CHIP CORE service manuals
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R343	- 1 The State of t					Gratis schema's
R344	QVZ3606-683	CHIP VR, AUDIO BIAS LEVE	Lanks	\$4.5 E-12504		
R345	QRSA08J-100YN	CHIPR		ТР	· DI 166270	Digitized by TEST PIN, TP302-305
R346	QRSA08J-123YN	CHIP R	cost "		PU56278 WWW fr	Ceservicemanuals.info
R347		BIND TAVABLEDA NO				eservicemanuale in c
R348	QRSA08J-OROY	CHIP R				01111.61
R349	QRSA08J-103YN	CHIP R				
R350	QRSA08J-122YN	CHIP R		- MECHA	CON SECTION -	
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R351	- 8	AND AND THE CHIEF		△ IC401	HD6305Y0A76F	FLAT IC
R352	-	med -dramiledarho		IC402		
R353	QRD163J-0R0	CR		IC403	MN74HC244S	FLATIC
R354	QRD163J-0R0	CR		OR	SN74HC244NS	FLAT IC
R355	QRD161J-123	CR		IC404	MN74HC244S	FLAT IC
		THE SHAPE THE SHAPE STATE		OR	SN74HC244NS	FLAT IC
				IC405	MN74HC244S	FLAT IC
				OR	SN74HC244NS	FLAT IC
		BIND DIAMETER REPUBLIC		IC406	BA6109U2	INTEGRATED CIRCUIT
C301	QER40JM-476	E CAP				
C302	-	AND PRESCRIPTION		IC407	AN6564NS	FLAT IC
C303	QER41EM-335	E CAP		1C408	MN4071BS	FLAT IC
C304	QER40JM-226	E CAP		IC409	MN4069UBS	FLAT IC
	QCSA1HJ-121	CHIP CAP		IC410	MN4011BS	FLAT IC
	QER41HM-474	E CAP				
C305	001111111111111111111111111111111111111	CHIP CAP		IC411	MN4081BS	FLAT IC
C305 C306	()('YAIHK-111)	OTTI OAT				FLATIC
C305 C306 C307	QCYA1HK-332 QE79011-563	MPCAP		IC412	UPD7564G-503	
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C305 C306 C307 C308 C309	QFZ9011-563 QCYA1HK-103	CHIP CAP		IC412	UPD/564G-503	
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		PART NO.	PART NAME, DESCRIPTION	# 4	MEF. NO.	PART NO.	PART NAME, DESCRIPTION
Q411		2SK621	CHIP DIGITAL FET		R438	QRSA08J-474YN	CHIP R
Q412		2SK621	CHIP DIGITAL FET		R439	QRSA08J-823YN	CHIP R
Q413		2SB709					CHIP R
			CHIP TRANSISTOR		R440	QRSA08K-475YN	CHIP H
Q414		2SK656	DIGITAL MOS FET	建 工作。			
					R441	QRSA08J-103YN	CHIP R
					R442	QRSA08J-105YN	CHIP R
					R443	QRSA08J-103YN	CHIP R
D401		MA151WK	CHIP DIODE	OF STOLEN	R444	QRSA08J-103YN	CHIPR
D402		MA151WA	CHIP DIODE	SZED SE CLIZE	R445	QRSA08J-104YN	CHIP R
D403		MA151WA	CHIP DIODE	TOTAL .	R446	ORSA08J-181YN	CHIP R
D404		MA151A	CHIP DIODE		R447	QRSA08J-105YN	CHIP R
D405			AD SIGN BURBONS SD		R448	QRSA08J-684YN	CHIP R
D406			5 MA - Proper From 40 AV				CHIP R
D407		MA3075M	CHIP ZENER DIODE		R449	QRSA08J-105YN	
		MA3075H	CHIP ZENER DIODE		R450	QRSA08J-102YN	CHIPR
		RD7.5M-T1B2	CHIP ZENER DIODE				
					R451	QRSA08J-105YN	CHIPR
	ОН	RD7.5M-T1B3	CHIP ZENER DIODE		R452	QRSA08J-125YN	CHIP R
D408		MA151WA	CHIP DIODE		R453	QRSA08J-105YN	CHIPR
D409		MA151K	CHIP DIODE		R454	_	THE PARTY OF THE PROPERTY OF THE PARTY OF TH
					R455	QRSA08J-153YN	CHIP R
					R456	QRSA08J-153YN	CHIPR
			RESERVE TO SET DESCRIPTION OF	F484 - 15	R457	QRSA08J-153YN	CHIPR
					R458		
R401		QRSA08J-153YN	CHIPR	Section 18			AND THE STATE OF STAT
R402		QRSA08J-153YN	CHIPR		R459		
R403	Heim	QRSA08J-153YN	CHIPR		R460	-	
R404	S	QRSA08J-103YN	CHIPR				
R405		QRSA08J-103YN	CHIPR		R461	QRSA08J-102YN	CHIPR
R406		QRSA08J-223YN	CHIP R		R462	QRSA08J-102YN	CHIP R
R407		QRSA08J-153YN	CHIP RILL WHIT		R463	QR\$A08J-102YN	CHIPR
	1	odemanuals.in	Chira		R464	QRSA08J-564YN	CHIP R
R408	01	111.61-1			R465	QRSA08J-104YN	CHIP R
R409					R466	ORSA08J-225YN	CHIP R
R410		7	- PARTER STREET	State .	R467	ORSA08J-102YN	CHIP R
							CHIP R
R411		QRSA08J-102YN	CHIPR	1 W 20 - 1	R468	QRSA08J-104YN	
R412		QRSA08J-102YN	CHIP R		R469	QRSA08J-102YN	CHIP R
R413		QRSA08J-102YN	CHIP R	annual Territoria	R470	QRSA08J-104YN	CHIPR
R414		QRSA08J-105YN	CHIPR				
R415		QRSA08J-104YN	CHIP R		R471	QRSA08J-102YN	CHIP R
R416		QRSA08J-104YN	CHIP R		R472	QRSA08J-104YN	CHIP R
R417		QRSA08J-104YN	CHIP R		R473	QRSA08J-102YN	CHIPR
					R474	QRSA08J-104YN	CHIP R
R418		QRSA08J-104YN	CHIP R		R475	QRSA08J-102YN	CHIPR
R419		QRSA08J-104YN	CHIPR	MOKON NEWS	R476	_	Francisco de la companya della companya della companya de la companya de la companya della compa
R420		QRSA08J-104YN	CHIPR		R477	QRSA08J-104YN	CHIPR
			A.A. Specialist	Smar To	R478	QRSA08J-104YN	CHIP R
R421		QRSA08J-104YN	CHIPR	person of			
R422		QRSA08J-104YN	CHIPR		R479	QRSA08J-222YN	CHIP R
R423		QRSA08J-474YN	CHIP R		R480	QRSA08J-102YN	CHIPR
R424		QRSA08J-105YN	CHIPR				ALM THE PERSON NAMED IN COLUMN TO TH
R425		QRSA08J-153YN	CHIP R	Carette 17 U.S.	R481	QRSA08J-102YN	CHIPR
R426		QRSA08J-102YN	CHIP R	CMP1 To See	R482	QRSA08J-102YN	CHIP R
R427		QRSA08J-153YN	CHIP R		R483	QRSA08J-102YN	CHIP R
R428		QRSA08J-153YN	CHIP R		R484	QRSA08J-102YN	CHIP R
				, .	R485	QRSA08J-102YN	CHIP R
R429		QRSA08J-102YN	CHIP R				CHIP R
R430		QRSA08J-102YN	CHIP R		R486	QRSA08J-102YN	
					R487	QRSA08J-102YN	CHIPR
R431		QRSA08J-563YN	CHIPR	present the same	R488	QRSA08J-103YN	CHIP R
R432		- 34 N. 1916	ning (-	NEGOTA CONTRACTOR	R489	QRSA08J-103YN	CHIPR
R433		QRSA08J-474YN	CHIP R	0.00	R490	QRSA08J-103YN	CHIP R
R434		QRSA08J-123YN	CHIP R				ALCOHOLOGICAL TO ALCOHOLOGICAL TO A COLOR
R435		QRSA08J-224YN	CHIP R		R491	QRSA08J-103YN	CHIPR
					R492	QRSA08J-472YN	CHIP R
R436		PU59237-154	CHIP VR, BATTERY ALARM		R493	QRSA08J-472YN	CHIP R
	OR	PU57816-2-154	CHIP VR	Nanpel - 1-			
	OB	PU59456-154	CHIP VR	DIND I'V	R494 R495	QRSA08J-103YN QRSA08J-103YN	CHIP R
	On						

R497	QRSA08J-103YN	CHIPR	202 70	Δ	TH401	PU52108-2R2	POSISTOR	
R498	QRSA08J-223YN	CHIP R	no transfer					
R499	QRSA08J-103YN	CHIPR	200					
R500	QRSA08J-223YN	CHIP R						
1300	QN3A003-223114	The state of the s			TP	PU56278	TEST PIN, TP401	
R501	QRSA08J-103YN	CHIPR					August 1997	
		CHIP R			SH1	PU59997	SHEET	
R502	QRSA08J-223YN							
R503	QRSA08J-103YN	CHIP R			SLD1	PQ42544	INSULATOR	
R504	QRSA08J-223YN	CHIPR				The state of the s		
R505	QRSA08J-103YN	CHIP R	318			STATE OF STREET		
R506	QRSA08J-102YN	CHIPR						
R507	QRSA08J-102YN	CHIPR	ar (9				RIFO NEW COURSE	
R508	QRSA08J-102YN	CHIP R			CN1	PU58655-3	CAP. HOUSING	
R509	QRSA08J-102YN	CHIPR			CN2	PU58655-3	CAP. HOUSING	
R510	QRSA08J-125YN	CHIPR			CN3	PU58655-2	CAP. HOUSING	
H310	QN3A003-125114	Dark Little Art to Sign			CN4	PU58655-4	CAP. HOUSING	
- 1								
R511	QRSA08J-102YN	CHIPR			CN5A	PU58655-7	CAP. HOUSING	
R512	QRSA08J-102YN	CHIP R			CN6	PU58655-2	CAP. HOUSING	
R513	QRSA08J-102YN	CHIP R			CN7	PU58250-8	CAP. HOUSING	
R514	QRSA08J-271YN	CHIP R	and the second		CN8	PU58250-10	CAP. HOUSING	
R515	QRSA08J-102YN	CHIP R	TOP .		CN9	PU58250-16	CAP. HOUSING	
		CHIP R	508 - 1					
R516	QRSA08J-0R0Y	CHIP N	100 100					
R517	-	the state of our sand	DUR.		CN10A	PU58655-5	CAP. HOUSING	
R518	QRSA08J-682YN	CHIP R			CN10B	PU58253-7	CAP. HOUSING	
R519	QRD161J-103	CR						
					CN11	PU58250-10	CAP. HOUSING	
					CN12	PU58250-10	CAP. HOUSING	
					CN13	PU58655-7	CAP. HOUSING	
C401	QCFA1EZ-104	CHIP CAP						
C402	QCFA1EZ-104	CHIP CAP	200		CN14	PU58655-2	CAP. HOUSING	
	do Area io	THIS MENTOP-CHOICE CO.			CN15	PU58655-3	CAP. HOUSING	
C403					CN16	PU58655-2	CAP. HOUSING	
C404		THE RESERVE THE PERSON NAMED IN			CN17	PU58655-5	CAP. HOUSING	
C405					CN18	PU58655-14	CAP. HOUSING	
C406	QCFA1HZ-473	CHIP CAP			CN19	PU58655-4	CAP. HOUSING	
C407	QCYA1HK-222	CHIP CAP	A - E D - F - E - E - E		CN20	PU58655-4	CAP. HOUSING	
C408	-							
C409	-	MIC SERVENIES OF	1189		CN21	PU58655-3	CAP. HOUSING	
C410	- 1	THE PROPERTY OF THE PARTY OF TH	100					
C411		OFFICE OFFICE OF STREET					SHOULD AWARENCE FOR	
C412	QCFA1EZ-104	CHIP CAP	And the same of the					
	QER41HM-105	E CAP						
C413			The same of					
C414	QCSA1HJ-270	CHIP CAP						
C415	QCSA1HJ-270	CHIP CAP						
C416	QCFA1EZ-104	CHIP CAP						
C417	QEF81AM-475	CHIP T CAP						**
C418	QCYA1HK-103	CHIP CAP				FIRE STANDARD STA		
C419	QCFA1EZ-104	CHIP CAP					State of the San	
C420	QCSA1HJ-561	CHIP CAP	THE PARTY OF				4,65	
C426	QEF81AM-475	CHIP T CAP	30'				and the second second	
		CHIP CAP						
C427	QCFA1EZ-104					PU11506A1-02-C	Y/C BOARD ASS'Y [02]	
C428	QEF81AM-475	CHIP T CAP					THE STATE OF THE S	
C429	QCSA1HJ-101	CHIP CAP	1000		IC1	AN3212S	FLATIC	
C430	QCSA1HJ-101	CHIP CAP						
		In-to subsequence Box	DIRECTOR		IC2	H8D7025B	INTEGRATED CIRCUIT	
					IC3	AN3323S	FLAT IC	
			100		IC4	H8DN7026A	INTEGRATED CIRCUIT	
		INC. TO SELECT PROPERTY.			IC5	8X7383	INTEGRATED CIRCUIT	
L401	PU59188-101K	CHIP COIL			IC6	BA7241F	FLATIC	
					IC7	H8D70048	INTEGRATED CIRCUIT	
					IC8	H8D1927B	INTEGRATED CIRCUIT	
					IC9	H8D7027A	INTEGRATED CIRCUIT	
CF401	PU58780	CERAMIC FILTER			IC10	THE045A	INTEGRATED CIRCUIT	

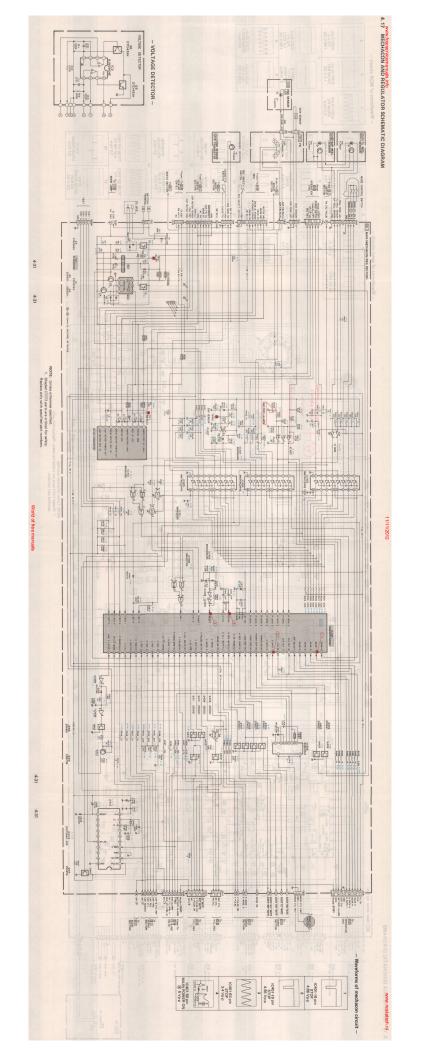
		PART NO.	PART NAME, DESCRIPTION	# 4	HEF.	NO.	PART NO.	PARTNAN	ME, DESCRIPTIO	/14
IC11		BA7131F	FLAT IC	ALT HOLE	R12		PU59237-681	CHIP VR, F	REC COLOUR L	EVEL
				THE STREET		OR	PU59456-681	CHIPVR		
					R13		PU59237-102		BURST LEVEL	
						OB	PU59456-102	CHIP VR	THE SOURCE STATE OF THE STATE O	
Q1		DTC144EK	CHIP DIGITAL TRANSISTOR		D	UH			EC	
					R14		PU59237-473	CHIP VR, A		
02		DTC144EK	CHIP DIGITAL TRANSISTOR			OR	PU59456-473	CHIPVR		
03		2SC2412K	CHIP TRANSISTOR	SERVICE SERVICE	R15		PU59237-102	CHIP VR, P	B COLOUR LE	VEL
	OR	2SD601	CHIP TRANSISTOR			OR	PU59456-102	CHIP VR		
Q4		2SC2412K	CHIP TRANSISTOR		R16		QRSA08J-222YN	CHIP R		
	OR	2SD601	CHIP TRANSISTOR		R17		QRSA08J-821YN	CHIPR		
Q5		DTC144EK	CHIP DIGITAL TRANSISTOR		R18		QRSA08J-103YN	CHIPR		
Q6		DTC144EK	CHIP DIGITAL TRANSISTOR							
					R19		QRSA08J-682YN	CHIP R		
07		DTC144EK	CHIP DIGITAL TRANSISTOR		R20		QRSA08J-680YN	CHIPR		
08		DTC144EK	CHIP DIGITAL TRANSISTOR							
09		2SC2412K	CHIP TRANSISTOR		R21		QRSA08J-473YN	CHIPR		
	OR	2SD601	CHIP TRANSISTOR	AS A STATE OF THE	R22		QRSA08J-152YN	CHIP R		
Q10		2SC2412K	CHIP TRANSISTOR		R23		QRSA08J-562YN	CHIP R		
	OR	2SD601	CHIP TRANSISTOR		R24		QRSA08J-332YN	CHIP R		
	On		Sim manufactor							
					R25		QRSA08J-821YN	CHIP R		
Q11		DTC114YK	CHIP DIGITAL TRANSISTOR		R26		QRSA08J-562YN	CHIPR		
012		gusping - physical	HAAT - BARRERBUS - CAR	校 语 图 图	R27		QRSA08J-332YN	CHIPR		
013		_			R28		QRSA08J-393YN	CHIPR		
Q14		2SC2412K	CHIP TRANSISTOR		R29		QRSA08J-562YN	CHIPR		
	08	2SD601	CHIP TRANSISTOR		R30		QRSA08J-102YN	CHIPR		
	On	230001	CHIP THANSISTON	用的 和 通用等						
					D21		OBC 400 1 222 VN	CHIRR		
					R31		QRSA08J-223YN	CHIP R		
		and the same of th	1 RAO E _ O DECTEUR _ gru	The state of the s	R32		QRSA08J-332YN	CHIPR		
D1		The second second		THE STATE OF THE S	R33		QRSA08J-681YN	CHIPR		
D2		DAN202K	CHIP DIODE		R34			-		
	OR	MA151WK	CHIP DIODE		R35		QRSA08J-822YN	CHIPR		
D3		DAN202K	CHIP DIODE				QRSA08J-102YN	CHIP R		
	OR	MA151WK	CHIP DIODE		R36					
	OH				R37		QRD161J-561	CR		
D4		DAN202K	CHIP DIODE		R38		QRSA08J-471YN	CHIPR		
	OR	MA151WK	CHIP DIODE		R39		QRSA08J-471YN	CHIPR		
D5		DAN202K	CHIP DIODE		R40		QRSA08J-153YN	CHIP R		
	OR	MA151WK	CHIP DIODE				G110A003-100111	O		
D6		DAN202K	CHIP DIODE							
-	OP	MA151WK	CHIP DIODE	Maria di Prin	R41		QRSA08J-562YN	CHIPR		
07	On				R42		QRSA08J-182YN	CHIPR		
D7		DAN202K	CHIP DIODE		R43		QRSA08J-222YN	CHIPR		
	OR	MA151WK	CHIP DIODE		R44		QRSA08J-332YN	CHIPR		
					R45		QRSA08J-332YN	CHIPR		
					R46		QRSA08J-103YN	CHIPR		
					R47		QRSA08J-103YN	CHIP R		
R1		PU59237-102	CHIP VR, REC FM LEVEL							
	OR	PU59456-102	CHIP VR		R48		QRSA08J-333YN	CHIP R		
R2		PU59237-473	CHIP VR, WHITE CLIP	tally 19 th as	R49		QRSA08J-473YN	CHIPR		
	OR	PU59456-473	CHIP VR		R50		QRSA08J-222YN	CHIPR		
R3		PU59237-473	CHIP VR, DARK CLIP							
-	08	PU59456-473	CHIP VR		R51		QRSA08J-393YN	CHIPR		
04	On				R52		QRSA08J-393YN	CHIPR		
R4		PU59237-153	CHIP VR, CARRIER		R53		_			
	OR	PU59456-153	CHIP VR		R54		QRSA08J-122YN	CHIPP		
R5		PU59237-103	CHIP VR, DEVIATION					CHIPR		
	OR	PU59456-103	CHIP VR		R55		QRSA08J-122YN	CHIP R		
R6		PU59237-222	CHIP VR, NOISE CANCEL		R56		QRSA08J-152YN	CHIPR		
	OR	PU59456-222	CHIP VR		R57		QRSA08J-OROY	CHIPR		
87		PU59237-473	CHIP VR, Y LEVEL		R58		QRSA08J-102YN	CHIP R		
R7	-				R59		QRSA08J-331YN	CHIPR		
	OR	PU59456-473	CHIPVR		R60		QRSA08J-102YN	CHIP R		
R8		PU59237-473	CHIP VR. REC GAIN		1100		Z	om n		
	OR	PU59456-473	CHIP VR	.0						
		PU59237-102	CHIP VR, EE Y LEVEL		R61		QRSA08J-222YN	CHIP R		
R9	OB	PU59456-102	CHIPVR		R62		QRSA08J-103YN	CHIP R		
R9			CHIP VR. VIDEO EQ		R63		QRSA08J-152YN	CHIP R		
		WI IND 777777	CHIP VR VIDEU EU							
R9		PU59237-222	어때를 하다 아무슨 사람 선생님이 이 때문에는 그렇다는데	With the second	REA		ORSAOR LIOZVAL	CHIPP		
		PU59456-222	CHIP VR		R64		QRSA08J-103YN	CHIPR		
			어때를 하다 아무슨 사람 선생님이 이 때문에는 그렇다는데		R64		QRSA08J-103YN	CHIP R		
			어때를 하다 아무슨 사람 선생님이 이 때문에는 그렇다는데		R64		QRSA08J-103YN QRSA08J-332YN	CHIP R		

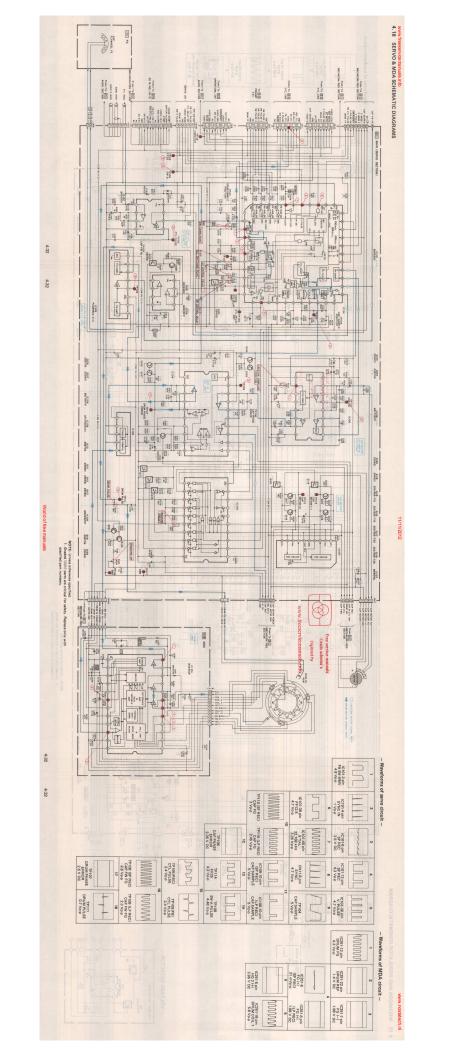
R68 R69 R70 R71 R72 R73 R74 R75 R76 R77 R78 R79 R80	QRSA08J-103YN QRSA08J-471YN QRSA08J-153YN QRSA08J-682YN QRSA08J-0R0Y QRSA08J-0R0Y QRSA08J-0R0Y QRSA08J-0R0Y QRSA08J-0R0Y	CHIP R	143	C25 C26 C27 C28 C29	QCYA1HK-103 QCYA1HK-103 QCYA1HK-103 QCSA1HJ-390	CHIP CAP CHIP CAP
R69 R70 R71 R72 R73 R74 R75 R76 R77 R78 R79 R80	QRSA08J-471YN QRSA08J-153YN - QRSA08J-682YN QRSA08J-0R0Y QRSA08J-0R0Y QRSA08J-0R0Y - QRSA08J-0R0Y QRSA08J-0R0Y	CHIP R		C27 C28	QCYA1HK-103	
R70 R71 R72 R73 R74 R75 R76 R77 R78 R79 R80 R81 R82	QRSA08J-153YN QRSA08J-682YN QRSA08J-0R0Y QRSA08J-0R0Y QRSA08J-0R0Y QRSA08J-0R0Y QRSA08J-0R0Y	CHIP R CHIP R CHIP R CHIP R CHIP R		C27 C28	QCYA1HK-103	
R71 R72 R73 R74 R75 R76 R77 R78 R79 R80	QRSA08J-682YN QRSA08J-0R0Y QRSA08J-0R0Y QRSA08J-0R0Y — QRSA08J-0R0Y QRSA08J-0R0Y	CHIP R CHIP R CHIP R CHIP R		C28		
R72 R73 R74 R75 R76 R77 R78 R79 R80	QRSA08J-0R0Y QRSA08J-0R0Y QRSA08J-0R0Y — QRSA08J-0R0Y QRSA08J-0R0Y	CHIP R CHIP R			200A 1113-330	CHIP CAP
R72 R73 R74 R75 R76 R77 R78 R79 R80	QRSA08J-0R0Y QRSA08J-0R0Y QRSA08J-0R0Y — QRSA08J-0R0Y QRSA08J-0R0Y	CHIP R CHIP R		C23	QCYA1HK-103	CHIP CAP
R73 R74 R75 R76 R77 R78 R79 R80	QRSA08J-0R0Y QRSA08J-0R0Y QRSA08J-0R0Y — QRSA08J-0R0Y QRSA08J-0R0Y	CHIP R CHIP R		020		
R74 R75 R76 R77 R78 R79 R80	QRSA08J-0R0Y QRSA08J-0R0Y — QRSA08J-0R0Y QRSA08J-0R0Y	CHIP R		C30	QCSA1HJ-120	CHIP CAP
R75 R76 R77 R78 R79 R80	QRSA08J-0R0Y QRSA08J-0R0Y QRSA08J-0R0Y	CHIP R				Marie Committee of the
R76 R77 R78 R79 R80	QRSA08J-0R0Y QRSA08J-0R0Y			C31	QCYA1HK-103	CHIP CAP
R77 R78 R79 R80	QRSA08J-0R0Y			C32	QCYA1HK-103	CHIP CAP
R78 R79 R80 R81 R82	QRSA08J-0R0Y			C33	QCYA1EK-223	CHIP CAP
R79 R80 R81 R82		CHIP R	3145	C34	QCYA1HK-103	CHIP CAP
R80 R81 R82		CHIPR		C35	ECEVOJV220	CHIP E CAP
R81 R82	QRSA08J-0R0Y	CHIPR		C36	QCYA1HK-103	CHIP CAP
R81 R82	_			C37	QCYA1EK-223	CHIP CAP
R82				C38	QCYA1HK-103	CHIP CAP
R82	OBSAGRI 153VN	CHIPR	The state of the			
	QRSA08J-153YN			C39	ECEV1CV100	CHIP E CAP
000	QRSA08J-122YN	CHIPR	200	C40	QEF80JM-475	CHIP T CAP
R83	EVATT DATICIOS	THE THE PERSON OF THE PERSON O	10.00			
R84	QRSA08J-122YN	CHIP R		C41	QER41CM-106	E CAP
R85	QRSA08J-393YN	CHIP R		C42	ECEV1CV100	CHIP E CAP
R86	QRSA08J-102YN	CHIP R	100	C43	QCYA1HK-103	CHIP CAP
R87	QRSA08J-102YN	CHIP R		C44	ECEVICV100	CHIP E CAP
R88	QRSA08J-0R0Y	CHIP R				CHIP E CAP
R89	QRSA08J-271YN	CHIP R		C45	ECEVOJV220	CHIP CAP
				C46	QCYA1HK-103	
R90	QRSA08J-271YN	CHIPR		C47	QCYA1HK-103	CHIP CAP
				C48	ECEVICV100	CHIP E CAP
R91	QRSA08J-0R0Y	CHIPR	100 mg	C49	QEF81AM-105	CHIP T CAP
R92	QRSA08J-0R0Y	CHIPR	899-	C50		
R93	QRSA08J-223YN	CHIP R				
				C51	ECEV1CV100	CHIP E CAP
200	0001671155	ce		C52	QCSA1HJ-560	CHIP CAP
R99	QRD167J-155	CR		C53	QCSA1HJ-680	CHIP CAP
						CHIP CAP
R104	QRSA08J-0R0Y	CHIPR		C54	QCYA1HK-103	
				C55	QCYA1HK-103	CHIP CAP
R124	QRD161J-271	CR		C56	QCYA1HK-103	CHIP CAP
				. C57	QCSA1HJ-330	CHIP CAP
			200 35 11 2	C58	QCYA1HK-103	CHIP CAP
			Lather Tolk	C59	PU56274B-200	CHIP TR CAP, AFC
				C60	QCYA1HK-103	CHIP CAP
C1	ECEV1HV3R3	CHIP E CAP				
C2	QCYA1HK-103	CHIP CAP		C61	QCYA1HK-103	CHIP CAP
C3	QCYA1HK-103	CHIP CAP				CHIP CAP
	QCSA1HJ-151	CHIP CAP		C62	QCYA1HK-103	
C4				C63	ECEVOJV220	CHIP E CAP
C5	QCYA1HK-103	CHIP CAP		C64	QEF81AM-105	CHIP T CAP
C6	QCSA1HJ-5R0	CHIP CAP		C65		
C7	QCTA1CH-390	CHIP CAP		C66	QEF81AM-105	CHIP T CAP
C8 .	QEF80JM-476	CHIP T CAP	100	C67		
C9	QCSA1HJ-181	CHIP CAP		C68	QCYA1HK-103	CHIP CAP
C10	QEF80JM-225	CHIP T CAP	TOTAL STATE	000	201AIHK-103	
010	QL1 003W-225	Sill Toar				
	00444	0.000		C71	QER41EM-475	E CAP
C11	QCYA1EK-223	CHIP CAP				
C12	QCSA1HJ-391	CHIP CAP			00044111577	0.040
C13	QCSA1HJ-471	CHIP CAP		C77	QCS11HJ-270	CCAP
C14	QCSA1HJ-151	CHIP CAP				
C15	QCYA1HK-103	CHIP CAP		C83	QCS11HJ-560	C CAP
C16	QCYA1HK-222	CHIP CAP				
C17	QEF80JM-225	CHIP T CAP				
C18	QEF80JM-475	CHIP T CAP				
C19	ECEVOJV220	CHIP E CAP				
C20	QEF81AM-335	CHIP T CAP				
C21	QCSA1HJ-680	CHIP CAP				
C22	QEF81AM-105	CHIP T CAP				
C23	QCYA1HK-103 QCSA1HJ-270	CHIP CAP				

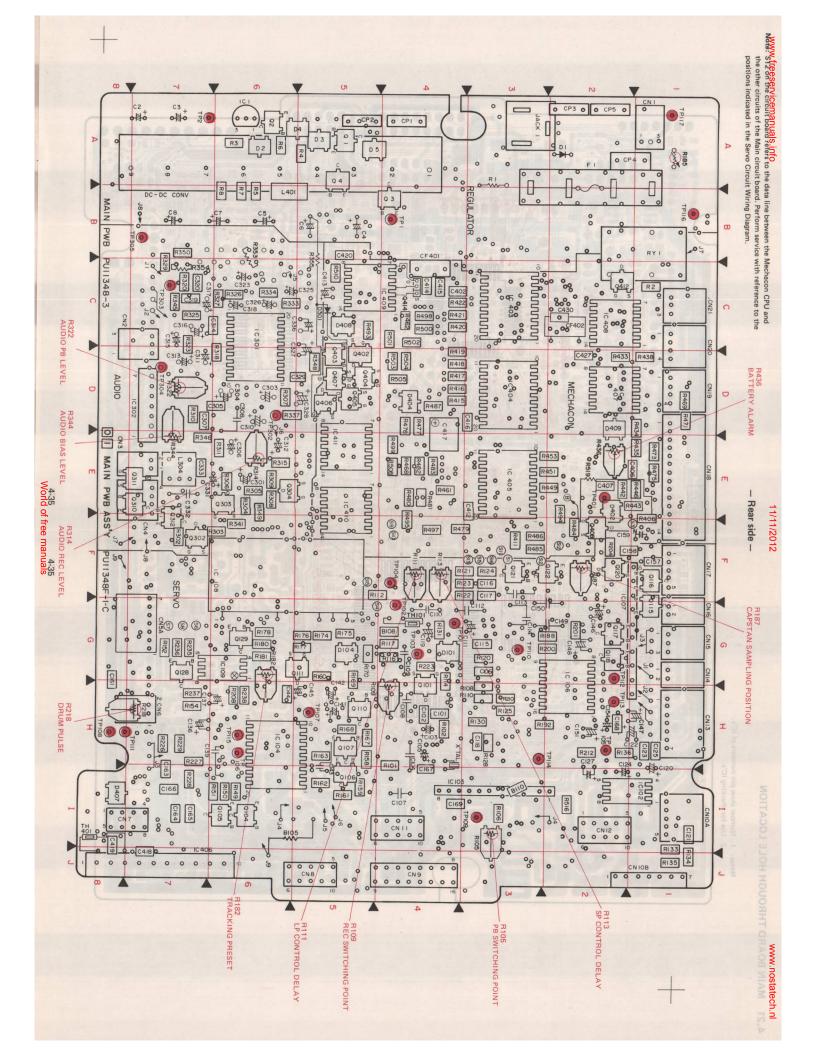
<u> </u>	2		PU59888-470K	CHIP COIL					
<u>^</u> L	2			Oriti Coll		SID1	PQ42942	SHIELD TAPE	
<u>Λ</u> ι				CHIP COIL		SLD1	PU42942	SHIELD TAPE	
Δ.	_3		PU59888-470K	OTHI COIL				THE REPORT OF THE PERSON OF TH	
			PU58627-120J	CHIP COIL		SH1	PQ42945	M. SHEET	
		OR	PU58201-120J	CHIP COIL					
		OR	PU59152-120	CHIP COIL					
	4		PU58627-120J	CHIP COIL					
		OR	PU58201-120J	CHIP COIL		CN1	PU58655-2	CAP. HOUSING	
						CN2	PU58655-2	CHB HOUSING	
		OH	PU59152-120	CHIP COIL		CN3	PU58251-10	CAR HOUSING	
ı	L5		-	State of Association Section				CAR HEHEIMS	
1	_6		PU58627-680J	CHIP COIL		CN4	PU58251-10		
		OR	PU58201-680J	CHIP COIL		CN5	PU59636-12	CAP. HOUSING	
,	_7	30.0	PU58627-680J	CHIP COIL					
E.									
		OH	PU58201-680J	CHIP COIL					
	_8		-	Total Transfer of the Control of the					
1	_9		PU59888-470K	CHIP COIL			-	S/S BOARD ASS'Y	
1	L10		PU58627-101K	CHIP COIL				THE STREET STREET	
41	_,,		A STATE OF THE STA			Q12	DTA114EK	CHIP DIGITAL TRANSISTOR	
		OH	PU58201-101K	CHIP COIL	Mary Tolland				
						Q13	DTC114YK	CHIP DIGITAL TRANSISTOR	
1	L11		-	DELL'ARTINE DE MERCHANISTE LE COLONIO					
	L12		PU59888-470K	CHIP COIL		Q15	DTC144EK	CHIP DIGITAL TRANSISTOR	
				CHIP COIL		Q16	DTC144EK	CHIP DIGITAL TRANSISTOR	
	L13		PU59888-470K	CHIP COIL	\$4.7 B			J. J	
1	L14		PU58627-220J	CHIP COIL				VACATOR STATE	
		OR	PU58201-220J	CHIP COIL					
						D10	DAN202K	CHIP DIODE	
1	L17		PU59152-270J	CHIP COIL				THE MYTHELEDIZERD A THE	
	L18		PU59152-470J	CHIP COIL					
	LIO		PU59152-470J	CHIP COIL		R95	QRSA08J-103YN	CHIP R	
						R96	QRSA08J-103YN	CHIP R	
						R97	QRSA08J-103YN	CHIPR	
	DL1		PU59472	1H DELAY LINE		R98	QRSA08J-680YN	CHIPR	
[DL2		PU59473-2	2H COMB FILTER					
			44.5			R100	QRSA08J-0R0Y	CHIP R	
							2110000000101		
						R111	QRSA08J-103YN	CHIP R	
1	LPF1		PU59474-3	CHIP LOW PASS FILTER					
1	LPF2		PU59475-2	CHIP LOW PASS FILTER					
	LPF3		PU59476-2	CHIP LOW PASS FILTER	THE PARTY	C74	QCYA1EK-223	CHIP CAP	
50			A dam ar	AUSO TO SOUR BECKER IN THE STATE					
						C75	QCYA1EK-223	CHIP CAP	
				CHARLES THE WAY TO SEE THE STATE OF THE STAT					
	HPF1		PU59479-3	CHIP HIGH PASS FILTER					
			. 500 175-0	11977 - CO - 201 - A VINO					
				But the second of the second o	A CONTRACTOR				
				APPLICATION DESCRIPTION OF THE				APC BOARD ASS'Y	
			MAD T	NUMBER OF STREET				THE REPORT OF THE PROPERTY OF THE PARTY OF T	
1	BPF1		PU59477	CHIP BAND PASS FILTER		D8	DAN202K	CHIP DIODE	
1	BPF2		PU59478	CHIP BAND PASS FILTER			THE LANGE OF	HOW TO THE RESEARCH THE T	
200						204	000400140000	CHIRD	
						R94	UHSAU8J-103YN	CHIP R	
							TAN 1	HOTEL STATE NEED CONTRACTOR	
						R110	QRSA08J-152YN	CHIP R	
1	EQ1		PU59480-3	CHIP EQUALIZER					
1	EQ2		PU59031	FH TRAP COIL					
							THE RESERVE		
					Territoria de la compansión de la compan				
								AS STRUCK CONTRACTOR	
A :	X1		PU31449-2	CRYSTAL			-	EQ BOARD ASS'Y	
								HORE TAX DE LA CONTRA DEL CONTRA DE LA CONTRA DEL CONTRA DE LA CONTRA DEL CONTRA DE LA CONTRA DEL CONTRA DE LA CONTRA DEL CONTRA DE LA	
						R65	QRSA08J-102YN	CHIP R	
PE-	TP		PU56278	TEST PIN, TP1 - 14	28 1 20	EQ3	PU59857	CHIP EQUALIZER	
						929181	THE PARTY OF A STATE OF	CENTRAL PROPERTY OF THE PROPER	
S	SPC1	-	PQ42625	SPACER					
	SPC1		PQ42625 PQM30029-58	SPACER					

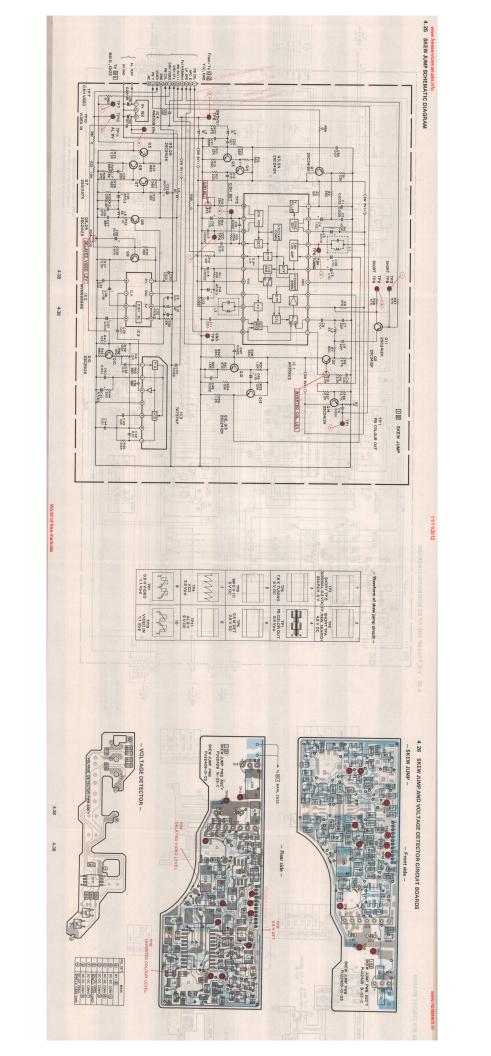
		_ And	NOISE MIX BOARD ASS'Y	1 3	011		2SC2412K	CHIP TRANSISTOR
			URD COPER A DOCUMENT OF			OR	2SD601	CHIP TRANSISTOR
Q20		DTC144EK	CHIP DIGITAL TRANSISTOR	9979	Q12		2SC2412K	CHIP TRANSISTOR
420		310144210		1		OR	2SD601	CHIP TRANSISTOR
D15		DA204K	CHIP DIODE	130	Q13	0	2SC2412K	CHIP TRANSISTOR
015		DA204K	CHIP BIOBE			OR	2SD601	CHIP TRANSISTOR
D400		0000001000011	CHIRR			0.1		
R120	,	QRSA08J-682YN	CHIP R	MAG	Q14		2SC2412K	CHIP TRANSISTOR
						OR	2SD601	CHIP TRANSISTOR
R.121		QRSA08J-222YN	CHIP R					
R123		QRSA08J-472YN	CHIP R					
R124	1	QRSA08J-124YN	CHIP R					
	1				R1		QRSA08J-332YN	CHIP R
C80		QCYA1EK-223	CHIP CAP	1	R2		QRSA08J-391YN	CHIP R
,					R3.		QRSA08J-123YN	CHIP R
C81		QCSA1HJ-820	CHIP CAP		R4		QRSA08J-104YN	CHIP R
C82		QCYA1EK-223	CHIP CAP		R5		QRSA08J-102YN	CHIP R
				1133	R6		QRSA08J473YN	CHIP R
					R7		QRSA08J-821YN	CHIP R
					R8		QRSA08J-272YN	CHIPR
				1	R9		QRSA08J-222YN	CHIP R
					R10		PU59237-222	CHIP VR, INVERTED COL LEV
						OR	PU59456-222	CHIP VR
				11			94	THE RESIDENCE OF THE PARTY OF T
			Mary and the second	1	R11		QRD161J-223	CR
		TME043A	PREAMP IC [04], EG	Residen		•	QRSA08J-103YN	CHIP R
		TME043B	PREAMP IC [04], EK		R12			
					R13		QRSA08J-154YN	CHIP R
				16	R14		QRSA08J-221YN	CHIPR
					R15		QRSA08J-393YN	CHIPR
					R16		PU59237-473	CHIP VR, 0.5H DET
						OR	PU59456-473	CHIP VR
				1	R17		QRSA08J-222YN	CHIP R
					R18		QRSA08J-561YN	CHIPR
		PU22428B-03-C	SKEW JUMP BOARD ASS'Y [12]		210		OBCAGRIECTAN	CHIP R
				1	R19		QRSA08J-561YN	
IC1		AN3592S	FLATIC .		R20		QRSA08J-393YN	CHIPR
IC2		MSM6989MS	FLATIC				000 - 00 - 000 -	Sent of Statistics and Sent of the Sent of
IC3		TA7374P	INTEGRATED CIRCUIT	1	R21		QRSA08J-223YN	CHIPR
IC4		AN8009	INTEGRATED CIRCUIT		R22		QRSA08J471YN	CHIP R
104		A110000		199	R23		QRSA08J-222YN	CHIP R
					R24		QRSA08J-681YN	CHIP R
				TER H	R25		QRSA08J-681YN	CHIP R
					R26		QRSA08J-471YN	CHIP R
					R27		QRSA08J-561YN	CHIP R
Q1		2SC2412K	CHIP TRANSISTOR		R28		QRSA08J-681YN	CHIP R
u1	00		CHIP TRANSISTOR		R29		QRSA08J-153YN	CHIP R
00	UH	2SD601	CHIP TRANSISTOR	124	R30		QRSA08J-223YN	CHIP R
02	-	2SC2412K			R31		QRSA08J-122YN	CHIP R
	OR	2SD601	CHIP TRANSISTOR		R32		QRSA08J-102YN	CHIP R
03		2SC2412K	CHIP TRANSISTOR		R33		QRSA08J-152YN	CHIPR
	OR	2SD601 ·	CHIP TRANSISTOR		R34		PU59237-103	CHIP VR, DELAYED V LEV
Q4		2SC2412K	CHIP TRANSISTOR	1	H34	00		
	OR	2SD601	CHIP TRANSISTOR			UH	PU59456-103	CHIP VR
05		2SC2412K	CHIP TRANSISTOR		R35		QRSA08J-393YN	CHIP R
	OR	2SD601	CHIP TRANSISTOR	1	R36		QRSA08J473YN	CHIPR
Q6		2SC2412K	CHIP TRANSISTOR		R37		QRSA08J-222YN	CHIPR
	OR	2SD601	CHIP TRANSISTOR		R38		QRSA08J-103YN	CHIPR
07		2SA1037K	CHIP TRANSISTOR		R39		QRSA08J-223YN	CHIP R
	OR	2SB709	CHIP TRANSISTOR		R40		QRSA08J-103YN	CHIP R
08		2SC2412K	CHIP TRANSISTOR	1				
-	OR	2SD601	CHIP TRANSISTOR		R41		QRSA08J-681,YN	CHIP R
09	JII	2SC2412K	CHIP TRANSISTOR		R42		QRSA08J-681YN	CHIP R
4	00		CHIP TRANSISTOR		R43		QRSA08J-681YN	CHIP R
0.0	OH	2SD601	CHIP TRANSISTOR		R44		QRSA08J-391YN	CHIP R
010	00	2SC2412K		1	R45		QRSA08J-562YN	CHIP R
	OR	2SD601	CHIP TRANSISTOR	100	R46		QRSA08J-473YN	CHIP R
				7 5 7 7 7 7	R47		QRSA08J-473YN	CHIPR

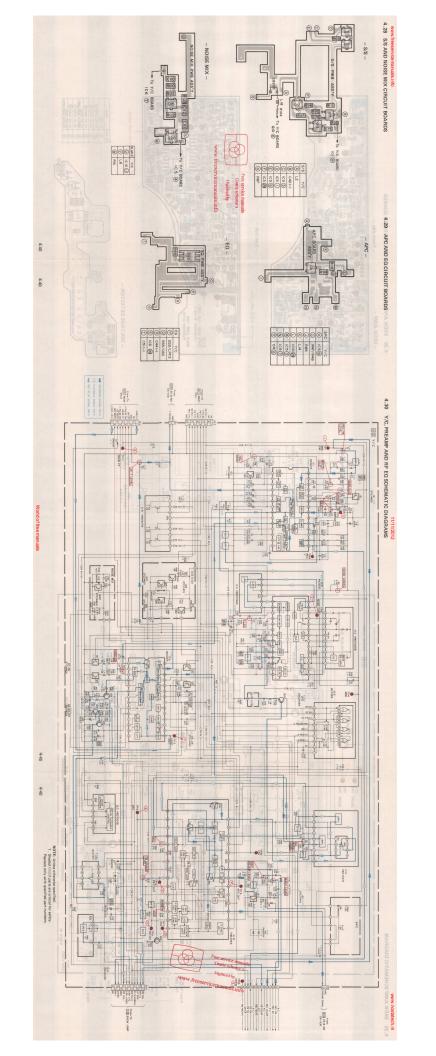
R49											
	QRSA08J-333YN	25C2412K R 9IHO			C42	3	QCYA1HK-103	CHIP CAP			
R50	QRSA08J-122YN	CHIP R TOBOSS			C43		QCSA1HJ-100	CHIP CAP			
	TRANSISTOR				C44		QCYA1HK-103	CHIP CAP			
R51	QRSA08J-471YN	CHIP R 100025			· C45						
R52	QRSA08J-152YN	CHIP R XSTACOSS			C46		QEF81AM-105	CHIP T CAP			DIS
R53	QRSA08J-333YN	CHIP R 100025			C47		QCYA1EK-223	CHIP CAP			
R54	QRSA08J-333YN	CHIPB		200	C48			CHIP CAP			
R55	QRSA08J-122YN	CHIP B		110	C49		QEF81AM-105	CHIP T CAP			
R56	QRSA08J-272YN	CHIP R									
R57	QRSA08J-222YN	CHIPR			. C50			CHIP CAP			892
R58	QRSA08J-0R0Y	CHIP R			17 2 may						
R59		21112.5			C51		QEF81VM-224	CHIP T CAP			
R60		CIUD C			C52						
100					No. of the last of		QEF81CM-106				
		ORSAGELIZZYN CHIP			C53		QCYA1HK-103	CHIP CAP			
R61		CHIP R MY POP LBOAZED			The same of						
R62	QRD161J-471	CR3 MYSULTBOASHD									
	P. Carlotte	CHISADBLA73YN CHIP									
		CREACEL-BOTTN CHIP			L1		PU59482-2	LC BLOCK			
	A STATE OF THE RESERVE OF THE RESERV	ORSA 081-222YN CHIP			L2	-	PU58627-330J	CHIP COIL			
C1 VE	QCYA1HK-332	CHIP CAP				OR	PU58201-330J	CHIP COIL			
C2	QCYA1HK-152	CHIP CAP			L3		PU59483	LC BLOCK			
C3	QEF81AM-475	CHIP T CAP			L4	100	PU58627-100J	CHIP COIL			
C4	QEF81AM-105	CHIP T CAP				OR	PU58201-100J	CHIP COIL			
C5	QEF81AM-105	CHIP T CAP			L5		PU59888-470J	CHIP COIL			
C6	QCYA1HK-102	CHIP CAP			L6		PU59888-470J	CHIP COIL			
C7	QCSA1HJ-220	CHIP CAP			L7 ·		PU58627-390J	CHIP COIL			
C8	QCYA1HK-103	CHIP CAP				OR	PU58201-390J	CHIP COIL			
		CHIP CAP			L8		PU58627-560J	CHIP COIL			
C9	QCSA1HJ-220			RIB		OR	PU58201-560J	CHIP COIL			
C10	QCYA1HK-103	CHIP CAP			L9						
	18	ORSAGEJ-223 PM CHIP			L10		PU59888-470J	CHIP COIL			
C11	QCYA1HK-103	CHIP CAP			. 210		10098880-1705	CHIP COIL			
C12	QCYA1HK-103	CHIP CAP			1000	(12) Y	JUMP BOARD ASS"	DEC SKEW			
C13	00V 41EV 222	CHIP CAP									
	QCYA1EK-223				TD		PI 156778	TEST DIM TO	1 _ 11		
C14 -	QEF80JM-476	CHIP T CAP			TP		PU56278	TEST PIN, TP			
		CHIP T CAP							1 — 11 20000и МОКОВМОМ		
C14 -	QEF80JM-476	CHIP T CAP		65A 158;	FW1		PU56278 PU59865-12	FLAT WIRE			
C14 C15 C16	QEF80JM-476 QCYA1HK-222 QCYA1HK-103	CHIP T CAP			FW1		PU59865-12	FLAT WIRE			
C14 C15 C16 C17	QEF80JM-476 QCYA1HK-222 QCYA1HK-103 QCYA1HK-222	CHIP T CAP CHIP CAP CHIP CAP CHIP CAP		TSR'				FLAT WIRE			
C14 C15 C16 C17 C18	QEF80JM-476 QCYA1HK-222 QCYA1HK-103 QCYA1HK-222 QEF81AM-105	CHIP T CAP CHIP CAP CHIP CAP CHIP CAP CHIP CAP CHIP T CAP		. 821 822	FW1		PU59865-12	FLAT WIRE			
C14 C15 C16 C17 C18 C19	QEF80JM-476 QCYA1HK-222 QCYA1HK-103 QCYA1HK-222 QEF81AM-105 QCYA1EK-223	CHIP T CAP CHIP CAP CHIP CAP CHIP CAP CHIP T CAP CHIP T CAP		128 122 122 123	FW1	ı	PU59865-12	FLAT WIRE			
C14 C15 C16 C17 C18	QEF80JM-476 QCYA1HK-222 QCYA1HK-103 QCYA1HK-222 QEF81AM-105	CHIP T CAP CHIP CAP CHIP CAP CHIP CAP CHIP T CAP CHIP T CAP		R21 R22 R23 R23	FW1	ı	PU59865-12	FLAT WIRE			
C14 C15 C16 C17 C18 C19 C20	QEF80JM-476 QCYA1HK-222 QCYA1HK-103 QCYA1HK-222 QEF81AM-105 QCYA1EK-223 QCYA1HK-103	CHIP T CAP CHIP CAP CHIP CAP CHIP CAP CHIP T CAP CHIP T CAP CHIP CAP		R21 R22 R23 R24 R24	FW1		PU59865-12	FLAT WIRE			
C14 C15 C16 C17 C18 C19 C20 C21	QEF80JM-476 QCYA1HK-222 QCYA1HK-103 QCYA1HK-222 QEF81AM-105 QCYA1EK-223 QCYA1HK-103	CHIP T CAP CHIP CAP CHIP CAP CHIP CAP CHIP T CAP CHIP CAP CHIP CAP CHIP CAP		1821 822 823 824 824 825	FW1		PU59865-12 PU59947-2	FLAT WIRE	ANJS92S MSM6088M TAY374P ANSOO9 3		103 103 104
C14 - C15 C16 C17 C18 C19 C20 C21 C22	QEF80JM-476 QCYA1HK-222 QCYA1HK-103 QCYA1HK-222 QEF81AM-105 QCYA1EK-223 QCYA1HK-103	CHIP T CAP CHIP CAP CHIP CAP CHIP CAP CHIP CAP CHIP T CAP CHIP CAP CHIP CAP			FW1		PU59865-12 TUDANO USTARI PU59947-2	FLAT WIRE SHIELD PLAT	ANJESS MSM698PM TAY374P ANBOOS B ANBOOS B		
C14 - C15 C16 C17 C18 C19 C20 C21 C22 C23	QEF80JM-476 QCYA1HK-222 QCYA1HK-103 QCYA1HK-222 QEF81AM-105 QCYA1EK-223 QCYA1HK-103 QCSA1HJ-151 QEK41AM-107	CHIP T CAP CHIP CAP CHIP CAP CHIP CAP CHIP T CAP CHIP CAP CHIP CAP CHIP CAP		R21 R22 R23 R24 R26 R27 R27 R28 R27 R28	FW1		PU59865-12 PU59947-2 PU59947-2 ROTZIZMART	FLAT WIRE SHIELD PLAT	AN36928 MSM6989M TA7374P AN8009 3 AN8009 3 2502472K 250567		C2 C3 C4
C14 C15 C16 C17 C18 C19 C20 C21 C22 C23 C24	QEF80JM-476 QCYA1HK-222 QCYA1HK-103 QCYA1HK-222 QEF81AM-105 QCYA1EK-223 QCYA1HK-103 QCSA1HJ-151 QEK41AM-107 — QCSA1HJ-220	CHIP T CAP CHIP CAP CHIP CAP CHIP CAP CHIP T CAP CHIP CAP CHIP CAP CHIP CAP			FW1		PU59865-12 PU59947-2 PU59947-2 ROTZIZMART ROTZIZMART	TAJA TFLATWIRE SHIELD PLAT SHIELD PLAT SHIP SHIP SHIP SHIP SHIP SHIP SHIP SHIP	AN38928 MSM6989M AN3009 a AN3009 a 2502412K 250501 2502412K	RO	(C2) (C3) (C4)
C14 - C15 C16 C17 C18 C19 C20 C21 C22 C23	QEF80JM-476 QCYA1HK-222 QCYA1HK-103 QCYA1HK-222 QEF81AM-105 QCYA1EK-223 QCYA1HK-103 QCSA1HJ-151 QEK41AM-107	CHIP T CAP CHIP CAP CHIP CAP CHIP CAP CHIP T CAP CHIP CAP CHIP CAP CHIP CAP CHIP CAP CHIP CAP E CAP CHIP CAP		R21 R22 R23 R24 R24 R27 R28 R27 R28 R29 R28 R31	FW1		PU59865-12 PU59947-2 PU59947-2 PU59947-2 PUTERNAME ROTEIRMANT ROTEIRMANT	TAJA TFLATWIRE SHIELD PLAT SHIELD PLAT SHIELD PLAT SHIELD PLAT SHIELD PLAT	AN38928 MSM6989M AN3009 a AN3009 a 2502412K 250601 250601	RO	C2 C3 C4
C14 C15 C16 C17 C18 C19 C20 C21 C22 C23 C24	QEF80JM-476 QCYA1HK-222 QCYA1HK-103 QCYA1HK-222 QEF81AM-105 QCYA1EK-223 QCYA1HK-103 QCSA1HJ-151 QEK41AM-107 — QCSA1HJ-220	CHIP T CAP CHIP CAP E CAP — CHIP CAP CHIP CAP CHIP CAP CHIP CAP CHIP CAP		R21 R22 R22 R24 R25 R27 R27 R28 R27 R29 R30 R31 R32 R32	FW1		PU59865-12 THUDHIO USTARE PU59947-2 GSTARE ROTZIZMART ROTZIZMART ROTZIZMART ROTZIZMART	TAJA FLAT WIRE SHIELD PLAT SHIELD PLAT SHIP	AN38928 MSM6989M AN3009 a AN3009 a 2502412K 250501 2502412K	RO	C2 C3 C4 C4
C14 C15 C16 C17 C18 C19 C20 C21 C22 C23 C24 C25	QEF80JM-476 QCYA1HK-222 QCYA1HK-103 QCYA1HK-222 QEF81AM-105 QCYA1EK-223 QCYA1HK-103 QCSA1HJ-151 QEK41AM-107 — QCSA1HJ-220 QEF80JM-476	CHIP T CAP CHIP CAP E CAP — CHIP CAP CHIP CAP CHIP CAP CHIP CAP CHIP CAP		R21 R22 R23 R24 R25 R27 R27 R28 R29 R29 R30 R31 R32 R32 R32	FW1		PU59865-12 PU59947-2 PU59947-2 PU59947-2 PUTERNAME ROTEIRMANT ROTEIRMANT	TAJA FLAT WIRE SHIELD PLAT SHIELD PLAT SHIP	AN38928 MSM6989M AN3009 a AN3009 a 2502412K 250601 250601	RO RO	C2 C3 C4
C14 C15 C16 C17 C18 C19 C20 C21 C22 C23 C24 C25 C26	QEF80JM-476 QCYA1HK-222 QCYA1HK-103 QCYA1HK-222 QEF81AM-105 QCYA1EK-223 QCYA1HK-103 QCSA1HJ-151 QEK41AM-107 — QCSA1HJ-220 QEF80JM-476 QCSA1HJ-270	CHIP T CAP CHIP CAP E CAP — CHIP CAP CHIP CAP CHIP CAP CHIP CAP CHIP T CAP CHIP CAP CHIP CAP		R21 R22 R22 R24 R25 R27 R27 R28 R27 R30 R31 R31 R32 R32 R32 R32 R32 R32 R32 R32 R32 R32	FW1	1	PU59865-12 THUDHIO USTARE PU59947-2 GSTARE ROTZIZMART ROTZIZMART ROTZIZMART ROTZIZMART	TAJS TELAT WIRE SHIELD PLAT SHIELD PLAT SHIP	AN38928 MSM6989M AN8009 a AN8009 a 25C2412K 25D601 25D601 25D601 25D601	RO RO	C2 C3 C3 C2
C14 C15 C16 C17 C18 C19 C20 C21 C22 C23 C24 C25 C26 C27 C28	QEF80JM-476 QCYA1HK-222 QCYA1HK-103 QCYA1HK-222 QEF81AM-105 QCYA1EK-223 QCYA1HK-103 QCSA1HJ-151 QEK41AM-107 — QCSA1HJ-220 QEF80JM-476 QCSA1HJ-270 QCSA1HJ-330 QEF81AM-106	CHIP T CAP CHIP CAP CHIP CAP CHIP CAP CHIP T CAP CHIP CAP		R21 R22 R22 R25 R26 R27 R27 R28 R27 R30 R31 R32 R32 R32 R32 R34	FW1		PU59865-12 THUDHIO USTARE PU59947-2 GSTARE ROTZIZMART ROTZIZMART ROTZIZMART ROTZIZMART ROTZIZMART	TAJ9 TFLATWIRE SHIELD PLAT	AN38928 MSM6989M AN8009 a AN8009 a 25C2412K 25D601 25D601 25D601 25D601 25D601	80 80	C2 C3 C4 C4
C14 C15 C16 C17 C18 C19 C20 C21 C22 C23 C24 C25 C26 C27 C28 C29	QEF80JM-476 QCYA1HK-222 QCYA1HK-103 QCYA1HK-222 QEF81AM-105 QCYA1EK-223 QCYA1HK-103 QCSA1HJ-151 QEK41AM-107 — QCSA1HJ-220 QEF80JM-476 QCSA1HJ-270 QCSA1HJ-330 QEF81AM-106	CHIP T CAP CHIP CAP E CAP CHIP CAP		R21 R22 R22 R25 R26 R27 R27 R28 R27 R30 R31 R32 R32 R34 R34	FW1		PU59865-12 PU59947-2 PU599	TAJ9 TFLATWIRE STILL STI	AN36928 MSM6989M AN3009 a AN3009 a 2SC2412K 2SD601 2SD601 2SC2412K 2SD601 2SC2412K 2SD601	80 80	02 01 02 02 02 02 02 02 03 03
C14 C15 C16 C17 C18 C19 C20 C21 C22 C23 C24 C25 C26 C27 C28	QEF80JM-476 QCYA1HK-222 QCYA1HK-103 QCYA1HK-222 QEF81AM-105 QCYA1EK-223 QCYA1HK-103 QCSA1HJ-151 QEK41AM-107 — QCSA1HJ-220 QEF80JM-476 QCSA1HJ-270 QCSA1HJ-330 QEF81AM-106 — QCYA1HK-103	CHIP T CAP CHIP T CAP CHIP CAP CHIP CAP CHIP CAP CHIP CAP CHIP CAP CHIP CAP		R21 R22 R22 R25 R26 R27 R27 R28 R27 R30 R31 R32 R32 R32 R32 R34	FW1		PU59865-12 THUDHIO USTARE PU59947-2 GSTARE PU59947-2 GSTARE ROTZIZMART ROTZIZMART ROTZIZMART ROTZIZMART ROTZIZMART ROTZIZMART ROTZIZMART ROTZIZMART ROTZIZMART	TAJA TFLATWIRE SHIELD PLAT SHIELD PLAT SHIP SHIP SHIP SHIP SHIP SHIP SHIP SHIP	AN36928 MSM6989M AN3009 a AN3009 a 2SC2412K 2SD601 2SC2412K 2SD601 2SC2412K 2SD601 2SC2412K 2SD601 2SC2412K	яо яо яо	C2 C3 C01 C01 C01 C02 C02 C02 C03 C04
C14 C15 C16 C17 C18 C19 C20 C21 C22 C23 C24 C25 C26 C27 C28 C29 C30	QEF80JM-476 QCYA1HK-222 QCYA1HK-103 QCYA1HK-222 QEF81AM-105 QCYA1EK-223 QCYA1HK-103 QCSA1HJ-151 QEK41AM-107 — QCSA1HJ-220 QEF80JM-476 QCSA1HJ-270 QCSA1HJ-330 QEF81AM-106 — QCYA1HK-103	CHIP T CAP CHIP CAP		R21 R22 R22 R25 R26 R27 R27 R28 R27 R30 R31 R32 R32 R34 R34	FW1		PU59865-12 THUDHIO USTARE PU59947-2 GSTARE PU59947-2 GSTARE ROTSISMART ROTSISMART ROTSISMART ROTSISMART ROTSISMART ROTSISMART ROTSISMART ROTSISMART ROTSISMART	TAJA TFLATWIRE STILL STI	AN36928 MSM6989M MSM6989M AN3009 B SSC2412K 250601 250601 250601 250601 250601 250601 250601 250601 250601	яо яо яо	102 104 104 02 03
C14 C15 C16 C17 C18 C19 C20 C21 C22 C23 C24 C25 C26 C27 C28 C29 C30 C31	QEF80JM-476 QCYA1HK-222 QCYA1HK-103 QCYA1HK-222 QEF81AM-105 QCYA1EK-223 QCYA1HK-103 QCSA1HJ-151 QEK41AM-107 — QCSA1HJ-220 QEF80JM-476 QCSA1HJ-270 QCSA1HJ-330 QEF81AM-106 — QCYA1HK-103	CHIP T CAP CHIP CAP		R21 R22 R22 R24 R25 R27 R27 R28 R27 R36 R36 R36 R36 R36 R36 R36 R36 R36 R36	FW1		PU59865-12 PU59865-12 PU59947-2 PU59	TAJA TFLATWIRE STILL STI	AN36928 MSM6989M AN8009 a AN8009 a 2SC2412K 2SD601 2SC2412K 2SD601 2SC2412K 2SD601 2SC2412K 2SD601 2SC2412K 2SD601 2SC2412K 2SD601 2SC2412K 2SD601	яо яо яо яо	102 104 104 02 03
C14 C15 C16 C17 C18 C19 C20 C21 C22 C23 C24 C25 C26 C27 C28 C29 C30 C31 C32	QEF80JM-476 QCYA1HK-222 QCYA1HK-103 QCYA1HK-222 QEF81AM-105 QCYA1EK-223 QCYA1HK-103 QCSA1HJ-151 QEK41AM-107 ———————————————————————————————————	CHIP T CAP CHIP CAP		R21 R22 R22 R25 R25 R27 R27 R28 R29 R30 R30 R30 R30 R30 R30 R30 R30 R30 R30	FW1		PU59865-12 PU59865-12 PU59947-2 PU59	TAJA TFLATWIRE PLAT SHIELD PLAT SHIELD PLAT SHIP SHIP SHIP SHIP SHIP SHIP SHIP SHIP	AN36928 MSM6989M MSM6989M AN3009 B AN3009 B 2502412K 250601 2502412K 250601 2502412K 250601 250601 250601 250601	90 90 90 90 80	C2 C3 C4 C4 C2
C14 C15 C16 C17 C18 C19 C20 C21 C22 C23 C24 C25 C26 C27 C28 C29 C30 C31 C32 C32 C33	QEF80JM-476 QCYA1HK-222 QCYA1HK-103 QCYA1HK-222 QEF81AM-105 QCYA1EK-223 QCYA1HK-103 QCSA1HJ-151 QEK41AM-107 ———————————————————————————————————	CHIP T CAP CHIP CAP		R21 R22 R24 R25 R25 R27 R27 R29 R32 R32 R32 R32 R32 R32 R32 R32 R32 R32	FW1		PU59865-12 PU59947-2 PU599	TAJA TFLATWIRE FLATWIRE	AN36928 MSM6989M MSM6989M AN3009 3 2502412K 250601 2502412K 250601 2502412K 250601 250601 250601 250601 250601 250601 250601 250601 250601	яо яо яо яо яо	C2 103 104 104 005 005 005 005 005 005 005 005 005 0
C14 C15 C16 C17 C18 C19 C20 C21 C22 C23 C24 C25 C26 C27 C28 C29 C30 C31 C32	QEF80JM-476 QCYA1HK-222 QCYA1HK-103 QCYA1HK-222 QEF81AM-105 QCYA1EK-223 QCYA1HK-103 QCSA1HJ-151 QEK41AM-107 ———————————————————————————————————	CHIP T CAP CHIP CAP		R21 R22 R24 R25 R25 R27 R27 R30 R32 R31 R32 R32 R32 R32 R32 R32 R32 R32 R32 R32	FW1		PU59865-12 PU59865-12 PU59947-2 PU59	TAJIS TFLATWIRE PLAT SHIELD PL	AN38928 MXM6989M MXM6989M AN3009 BAN3009 BAN3009 AN3009 AN	90 90 90 90 90	C2 C2 C4
C14 C15 C16 C17 C18 C19 C20 C21 C22 C23 C24 C25 C26 C27 C28 C29 C30 C31 C32 C32 C33	QEF80JM-476 QCYA1HK-222 QCYA1HK-103 QCYA1HK-222 QEF81AM-105 QCYA1EK-223 QCYA1HK-103 QCSA1HJ-151 QEK41AM-107 ———————————————————————————————————	CHIP T CAP CHIP CAP E CAP CHIP CAP	RO	R21 R22 R24 R25 R25 R27 R27 R30 R32 R32 R32 R32 R32 R34 R34 R35 R34 R37 R37 R37 R37 R37 R37 R37 R37 R37 R37	FW1		PU59865-12 PU59865-12 PU59947-2 PU59	TAJA TFLATWIRE PLAT SHIELD PLAT SHIELD PLAT	AN38928 MSM6989M MSM6989M AN8009 3 2SC2412K 2SD601	80 80 80 80 80	C2 C2 C4
C14 C15 C16 C17 C18 C19 C20 C21 C22 C23 C24 C25 C26 C27 C28 C29 C30 C31 C32 C33 C34	QEF80JM-476 QCYA1HK-222 QCYA1HK-103 QCYA1HK-222 QEF81AM-105 QCYA1EK-223 QCYA1HK-103 QCSA1HJ-151 QEK41AM-107 ———————————————————————————————————	CHIP T CAP CHIP CAP E CAP CHIP CAP	RO	R21 R22 R24 R25 R26 R27 R27 R30 R30 R31 R32 R32 R34 R34 R35 R36 R36 R37 R36 R37 R37 R38 R37 R37 R38 R37 R37 R37 R37 R37 R37 R37 R37 R37 R37	FW1		PU59865-12 PU59865-12 PU59947-2 PU59	TAJA TFLATWIRE PLAT SHIELD PLAT SHIELD PLAT	AN38928 MSM6989M MSM6989M AN8009 a 2SC2412K 2SD601	80 80 80 80 80	C2 C3 C4
C14 C15 C16 C17 C18 C19 C20 C21 C22 C23 C24 C25 C26 C27 C28 C29 C30 C31 C32 C33 C34 C35	QEF80JM-476 QCYA1HK-222 QCYA1HK-103 QCYA1HK-222 QEF81AM-105 QCYA1EK-223 QCYA1HK-103 QCSA1HJ-151 QEK41AM-107 ———————————————————————————————————	CHIP T CAP CHIP CAP E CAP CHIP CAP	RO	R21 R22 R24 R25 R26 R27 R27 R30 R30 R31 R34 R34 R34 R35 R36 R36 R36 R37 R36 R37 R37 R38 R37 R38 R37 R38 R37 R38 R37 R38 R37 R38 R37 R37 R37 R37 R37 R37 R37 R37 R37 R37	FW1		PU59865-12 PU59865-12 PU59947-2 PU59	TAJA TFLATWIRE PLAT SHIELD PLAT SHIELD PLAT	AN38928 MSM6989M MSM6989M AN8009 a 2SC2412K 2SD601 2SC2412K 2SC2412K 2SC2412K 2SC2412K	80 80 80 80 80	C2 C3 C4
C14 C15 C16 C17 C18 C19 C20 C21 C22 C23 C24 C25 C26 C27 C28 C29 C30 C31 C32 C33 C34 C35 C36 C36	QEF80JM-476 QCYA1HK-222 QCYA1HK-103 QCYA1HK-222 QEF81AM-105 QCYA1EK-223 QCYA1HK-103 QCSA1HJ-151 QEK41AM-107 ———————————————————————————————————	CHIP T CAP CHIP CAP E CAP CHIP CAP CHIP CAP CHIP CAP CHIP CAP CHIP CAP CHIP CAP CHIP CAP CHIP CAP CHIP CAP CHIP CAP CHIP CAP CHIP CAP CHIP CAP CHIP CAP CHIP CAP CHIP CAP CHIP CAP CHIP CAP CHIP CAP	80	R21 R22 R24 R25 R26 R27 R27 R30 R31 R35 R34 R35 R36 R36 R36 R36 R37 R36 R36 R37 R37 R38 R37 R38 R37 R38 R37 R38 R37 R37 R38 R37 R38 R37 R37 R37 R37 R37 R37 R37 R37 R37 R37	FW1		PU59865-12 PU59865-12 PU59947-2 PU59	TAJA TFLATWIRE PLAT SHIELD PLAT SHIELD PLAT	AN38928 MSM6989M MSM6989M AN8009 3 2502412K 250601 250601 250601 250601	80 80 80 80 80	02 00 00 00 00 00 00 00 00 00 00 00 00 0
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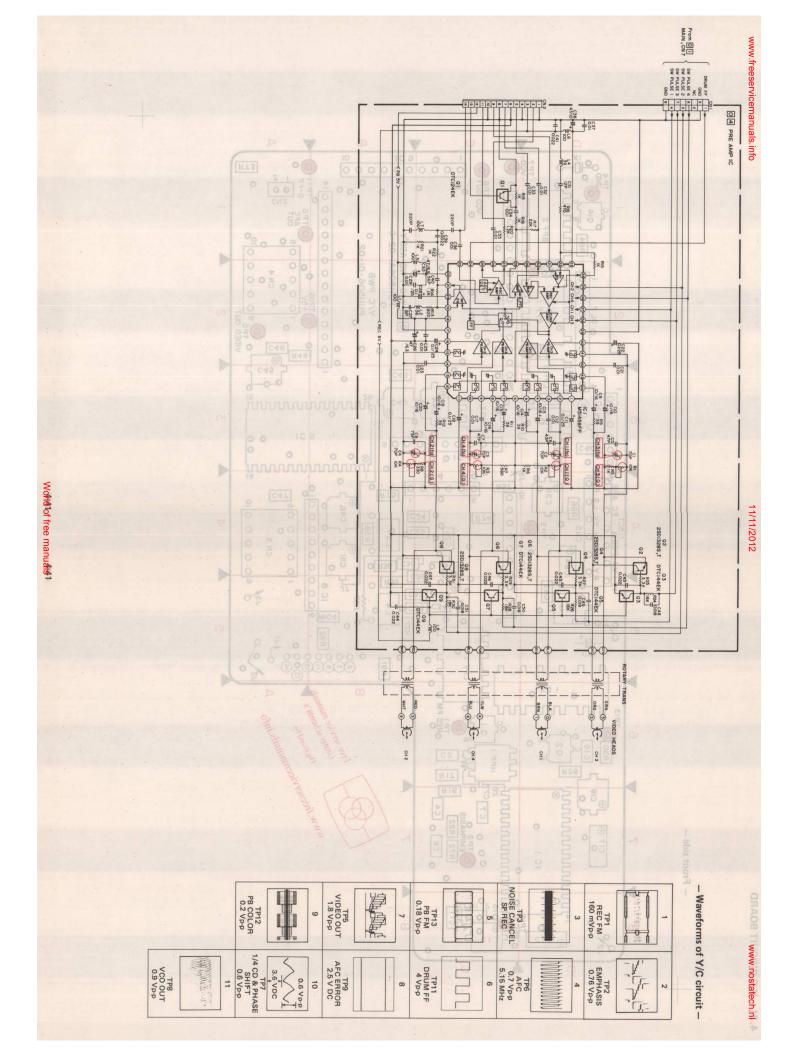


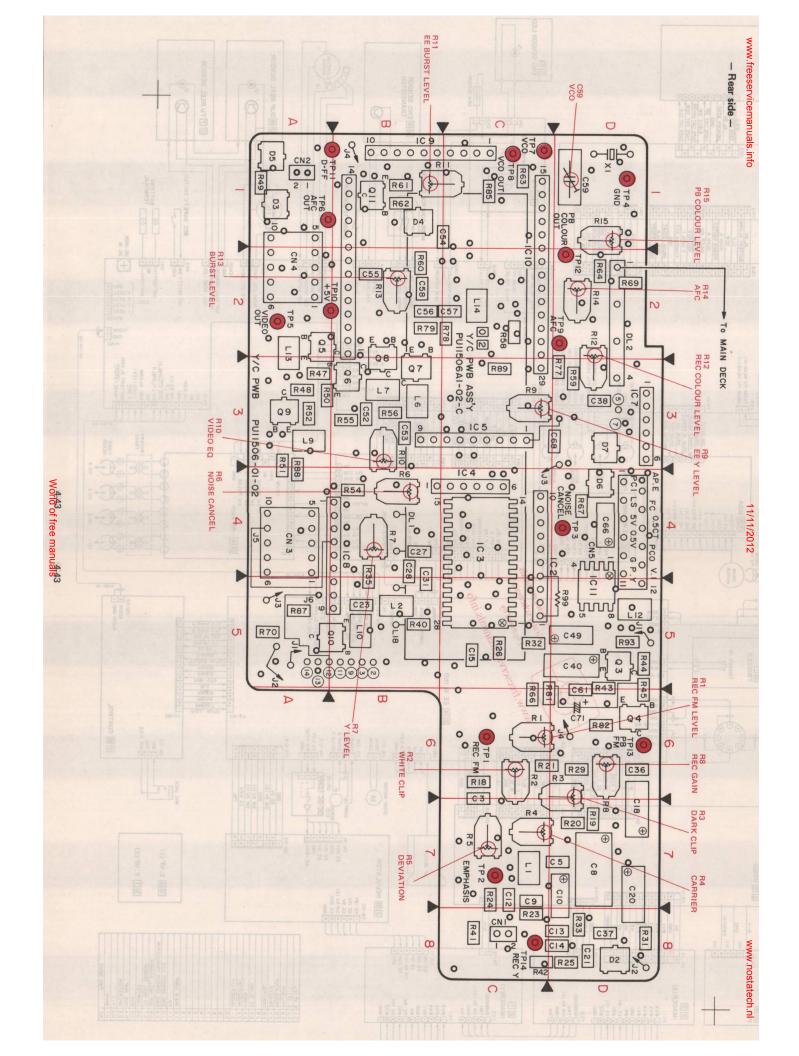
















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